JVC

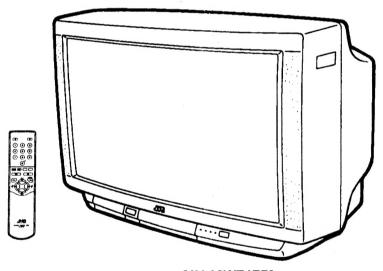
SERVICE MANUAL

COLOUR TELEVISION

BASIC CHASSIS

MD

AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS



[AV-32WZ4EP]

CONTENTS

	SPECIFICATIONS · · · · · · · · · · · · · · · · · · ·	2
*	OPERATING INSTRUCTIONS (APPENDIX) · · · · · · · · · · · · · · · · · · ·	-1
	SAFETY PRECAUTIONS ······	
	FEATURES · · · · · · · · · · · · · · · · · · ·	
	MAIN DIFFERENCE PARTS LIST······	
	SPECIFIC SERVICE INSTRUCTIONS ······	
	SERVICE ADJUSTMENTS · · · · · · · 1	
	STANDARD CIRCUIT DIAGRAM (APPENDIX)·················· 2-	
	PARTS LIST · · · · · · · · · · · · · · · · · · ·	13

SPECIFICATIONS

	Content				
Item	AV-32WZ4EP	AV-28WZ4EP / AV-28WZ4EPS			
Dimensions (W×H×D)	80.5cm × 55.0cm × 55.0cm	71.6cm × 48.9cm × 49.6cm			
49.8kg 36.3kg					
TV RF System	CCIR (B/G, I, L)				
Colour System	PAL / SECAM / NTSC (Only EXT mode)				
Stereo System	A2/NICAM (B/G) / NICAM (B/G, L)				
Teletext System	Fastext (United Kingdom system) / TOP (German system)	tem) / WST(Standard system)			
Receiving Frequency					
VHF	47MHz~ 470MHz				
UHF	470MHz~862MHz				
French CATV	116MHz~172MHz / 220MHz~469MHz				
Intermediate Frequency					
VIF Carrier	38.9MHz(B/G, I, L) / 34.10MHz(Ľ)				
SIF Carrier	33.4MHz(5.5MHz : B/G) / 32.9MHz(6.0MHz : 1) / 32.41	MHz(6.5MHz : L) / 40.6MHz(6.5MHz : L')			
Colour Sub Carrier Freg.					
•					
PAL	4.43MHz				
SECAM	4.40625MHz / 4.25MHz				
NTSC	3.58MHz / 4.43MHz				
Power Input	AC 220V~240V, 50Hz				
Power Consumption	249W(Max), 145W(Avg) / 145W/h (ITALY)	242W(Max), 138W(Avg) / 138W/h (ITALY			
Picture Tube	Visible size : 76cm, Measured diagonally	Visible size : 66cm, Measured diagonally			
High Voltage	32.0kV +1kV (at zero beam current)				
Speaker	φ 10cm + φ 3.5cm round × 2				
Audio Output	20W + 20W				
EXT-1/EXT-2/EXT-3	21-pin Euro connector(SCART socket)				
(Input / Output) EXT4 (Input) Video	114 T5 7 (704 177 174 174 174 174 174 174 174 174 17				
EXT4 (Input) Video Audio(L/R)	1Vp-p 75 Ω (RCA pin jack) 500m\/me(-4dRe) High Impedance/RCA pin jack)				
	500mVrms(-4dBs), High Impedance(RCA pin jack)				
S-VIDEO	Y: 1Vp-p Positive (negative sync provided, when terminated with 75 Ω) C: 0.286Vp-p (burst signal, when terminated with 75 Ω)				
SURROUND REAR OUT	Speaker terminals for external surround speakers (Impedance 8Ω) only.				
SOUVOOND VEWL OOL	Rated power output: 7.5W+7.5W				
AUDIO OUT	Variable out(0-1 Vrms), Low impedance				
100000	FRONT L/R output(RCA pinjack)				
	75 Ω unbalanced, Coaxial				
Aerial Input	Headphone jack Stereo mini jack (φ 3.5mm)				
	Stereo mini jack (φ3.5mm)				
	Stereo mini jack (φ 3.5mm) RM-C793				

Design & specifications are subject to change without notice.

★ Manufactured under license from Dolby Laboratories Licensing Corporation.

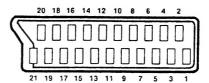
"Dolby" and the double-D symbol □ are trademarks of Dolby Laboratories Licensing Corporation.

■21-pin Euro connector (SCART socket) : EXT-1 / EXT-2 / EXT-3

(P-P= Peak to Peak, S-W= Sync tip to white peak, B-W= Blanking to white peak)

Pin No.	Signal Designation	Matching Value	EXT-1	EXT-2	EXT-3
1	AUDIO R output	500mVrms(Nominal), O O Cow impedance			NC
2	AUDIO R input	500mVrms(Nominal), High impedance	0	0	0
3	AUDIO L output	500mVrms(Nominal), Low impedance	O (TV OUT)	O (LINE OUT)	NC
4	AUDIO GND		0	0	0
5	GND (B)		0	0	. 0
6	AUDIO L input	500mVrms(Nominal), High impedance	0	0	0
7	B input	700mV _{B-W} , 75 Ω	0	NC	NC
8	FUNCTON SW (SLOW SW)	Low: 0-3V, High: 8-12V, High impedance	0	0	0
9	GND (G)		0	0	0
10	SCL3		NC	0	NC
11	G input	700mV _{B-W} , 75Ω	0	NC	NC
12	SDA3		NC	0	NC
13	GND (R)		0	0	0
14	GND (Y _s)		0	NC	NC
15	R / C input	R : 700mV _{B-W} , 75Ω	0	0	0
		C : 300mV _{P-P} , 75 Ω	(only R)	(only C)	(only C)
16	Ys input	Low: 0 - 0.4, High: 1 - 3V, 75Ω	0	NC	NC
17	GND(VIDEO output)		0	0	0
18	GND(VIDEO input)		0	0	0
19	VIDEO output	1V _{s-w} (Negative going sync), 75 Ω	O (TV)	O (LINE OUT)	NC
20	VIDEO / Y input	1V _{S-W} (Negative going sync), 75 Ω		0	
21	COMMON GND		0	0	0

[Pin assignment]



SAFETY PRECAUTIONS

- The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.

Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE: (_1) side GND, the ISOLATED(NEUTRAL): (_4) side GND and EARTH: (_9) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and Texture of the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.

If above note will not be kept, a fuse or any parts will be broken.

- If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
- 6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10κΩ 2W resistor to the anode button.
- 8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

9. Isolation Check

(Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.

(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

This method of test requires a test equipment not generally found in the service trade.

(2) Leakage Current Check

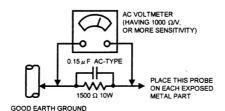
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method

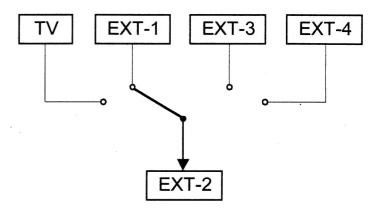
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a $0.15 \mu F$ AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



FEATURES

- By preference, users can select the picture size from REGULAR, PANORAMIC, 14:9 ZOOM, 16:9 ZOOM, 16:9 ZOOM SUBTITLE, FULL modes. When the TV unit received WSS picture signal, the picture can be changed to 16:9 mode automatically.
- The TELETEXT SYSTEM has a built-in Fastest, and WST system
- Because this TV unit corresponds to multiplex broadcast, users can enjoy music programs and sporting events with live realism.
 In addition, BILINGUAL programs can be heard in their original language.
- In accordance with the brightness in a room, the brightness and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eye.
- Users can make VCR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output shown in figure.
- Built-in SURROUND OUT.
- Built-in TV-LINK.



MAIN DEFFENENCE PARTS LIST

	Model Name				
Δ	Part Name	AV-32WZ4EP	AV-28WZ4EP	AV-28WZ4EPS	
	MAIN PWB	SMD-1002A-U2	SMD-1003A-U2	-	
	POWER / DEF PWB	SMD-2002A-U2	SMD-2003A-U2	-	
	CRT SOCKET PWB	SMD-3003A-U2	SMD-3002A-U2	-	
	100Hz PWB	SMD0Z002A-U2	SMD0Z003A-U2	-	
	CONTROL BASE L	CM12925-B01-E	CM12925-B03-E	-	
	CONTROL BASE R	· CM12925-A02-E	CM12925-A04-E	-	
	FFC WIRE	CHFD125-10BD	CHFD125-06BD	-	
	ANODE WIRE ASSY	QNZ0407-001	CETW004-055	-	
Δ	CRT (ITC)	W76ESF031X44	W66ESF002X44	-	
	BRAIDED ASSY	CHGB0029-0C	CHGB0029-0B	-	
Δ	DEG COIL	CELD062-001J2	CELD061-001J2	-	
	FRONT CABINET ASSY	CM12587-B0Q-E	CM12833-A0L-E	CM12833-A0K-E	
	OPERATION SHEET	CM36857-001	CM36587-002	-	
	DOOR (SERVICE)	CM23131-003-E	CM23132-010-E	CM23132-008-E	
	JVC MARK	CM48125-001	-	CM48125-004	
	SPEAKER NET	CM36172-00A-S	CM36171-00A-H	CM36171-00C-H	
	DOME BOX (×2)	CM12922-A01-E	CM12878-B01-E	-	
	DOME ADAPTER (×2)	CM12921-001-E	×	×	
Δ	FBT (SERVICE)	QQH0054-002-12	CETH026-00B	-	
Δ	REAR COVER	CM12737-003-E	CM12582-A04-E	-	
Δ	RATING LABEL	LC20092-008A-U LC20093-008A-U	LC20092-007A-U LC20093-007A-U	LC20092-016A-U LC20093-016A-U	
	EURO LABEL	AEM1038-085-E	AEM1039-062-E	AEM1039-040-E	
	X-RAY CARD	AEM1043-001-E	AEM1042-001-E	-	
	CUSHION SHEET	AEM3022-003-E	CP40193-009-E		
	CUSHION SHEET	AEM3022-004-E	CP40193-010-E	-	
	SET COVER	AEM1004-A07-E	AEM1004-A06-E	-	
	PACKING CUSHION	CP11549-B0B-E	LC10522-002A-U	-	
	PACKING CASE	AEM1002-C43-E	AEM1002-067-E	-	

SPECIFIC SERVICE INSTRUCTIONS

REPLACEMENT OF CHIP COMPONENT

■ CAUTIONS

- 1. Avoid heating for more than 3 seconds.
- 2. Do not rub the electrodes and the resist parts of the pattern.
- 3. When removing a chip part, melt the solder adequately.
- 4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

- 1. Use a high insulation soldering iron with a thin pointed end of it.
- 2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

- 1. How to remove Chip parts
- Resistors, capacitors, etc
- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



(2) Shift with tweezers and remove the chip part.



♦ Transistors, diodes, variable resistors, etc

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



Note: After removing the part, remove remaining solder from the

2. How to install Chip parts

- Resistors, capacitors, etc
- (1) Apply solder to the pattern as indicated in the figure.



(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.



- ♦ Transistors, diodes, variable resistors, etc
- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead A as indicated in the figure.



(4) Then solder leads **B** and **C**.



DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

- 1. Unplug the power cord.
- 2. Remove the 13 screws marked (A) as shown in Fig. 1.
- 3. Withdraw the rear cover toward you.

REMOVING THE CHASSIS

- After removing the rear cover.
- Slightly raise the both sides of the chassis by hand and remove the two claws under the both sides of the chassis from the front cabinet
- Withdraw the chassis backward.
 (If necessary, take off the wire clamp, connectors etc.)

REMOVING THE AV TERMINAL PWB & THE AV BOARD

- · After removing the rear cover.
- 1. Remove the 9 screws marked (B) as shown in Fig. 1.
- Remove the claws marked © under the CHASSIS as shown in Fig2.

REMOVING THE DOME SPEAKER BOX

- · After removing the rear cover.
- 1. Remove the 2 screws marked (F) as shown in Fig. 1.
- Follow the same steps when removing the other hand DOME SPEAKER BOX.

NOTE: When removing the screws marked (F) of the DOME SPEAKER BOX, remove the lower side screw first, and then remove the upper screw.

REMOVING THE CONTROL BASE

- After removing the CHASSIS.
- While pushing down the claws marked (H), remove the CONTROL BASE in the arrow direction (1) as shown in Fig. 3.

CHECKING THE PW BOARD

To check the back side of the PW Board.

- 1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
- Erect the chassis vertically so that you can easily check the back side of the PW Board.

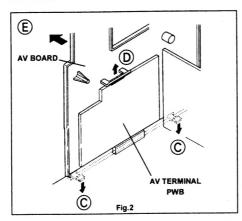
[CAUTION]

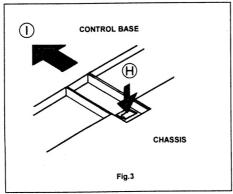
- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.

Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.





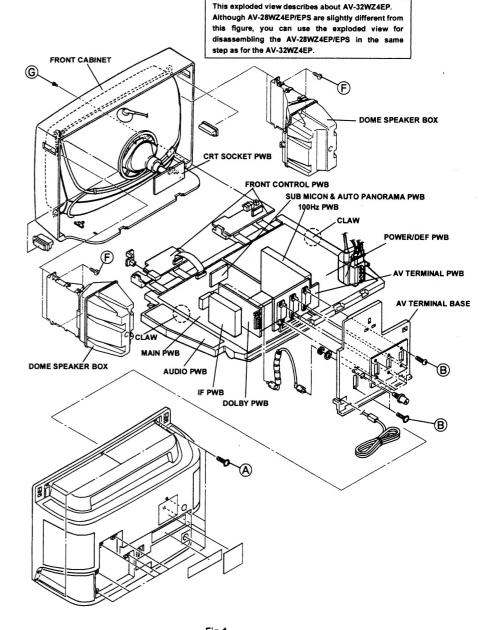
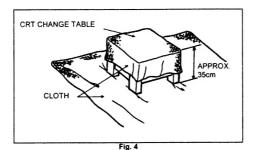


Fig.1

REMOVING THE CRT

- . Replacement of the CRT should be performed by 2 or more persons
- · After removing the cover, chassis etc...
- 1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig.4).
- 2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig.4.
- 3. Remove 4 screws marked by arrows with a box type screw driver as shown in Fig.5.
- · Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.
- 4. After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.6.
- . The CRT should be assembled according to the opposite sequence of its dismounting steps.
- . The CRT change table should preferably be smaller that the CRT surface, and its height be about 35cm.



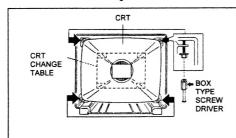


Fig. 5

CRT CABINET -CHANGE TABLE Fig. 6

COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

- . Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismounting them, be sure to coat silicon grease for electrical insulation as shown in Fig.7. Wipe around the anode button with clean and dry cloth. (Fig.7) Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not stick to the anode button. (Fig.8)
- ★ Silicon grease product No. KS 650N

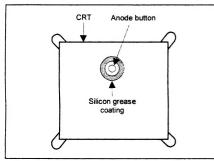


Fig. 7

Approx. Silicon grease 20mm (Do not should be coated coat grease on by 5mm or more this section from the outside diameter of anode cap. Anode button Coating position (No sticking of silicon grease) of silicon grease Anode cap

Fig. 8

REPLACEMENT OF MEMORY ICS

1. Memory ICs

This TV use memory ICs. In the memory ICs, there are memorized data for correctly operating the video and deflection circuits. When replacing memory ICs, be sure to use ICs written with the initial values of data.

2. Procedure for replacing memory ICs

PROCEDURE (1) Power off Switch the power off and unplug the power cord from the outlet. (2) Replace ICs. Be sure to use memory ICs written with the initial data values. (3) Power on Plug the power cord into the outlet and switch the power on. (4) Check and set SYSTEM CONSTANT SET:

- 1) Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously.
- 2) The SERVICE MENU screen of Fig. 1 will be displayed.
- 3) While the SERVICE MENU is displayed, press the INFORMATION key and MUTING key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed.
- 4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the FUNCTION UP/DOWN key, and set the correct value with the FUNCTION -/+ key.
- 5) Press the MENU key to memorize the setting value.
- 6) Press the INFORMATION key twice, and return to the normal

(5) Setting of receive channels

Set the receive channel.

For setting, refer to the OPERATING INSTRUCTIONS.

(6) User settings

Check the user setting values of Table 2, and if setting value is different, set the correct value.

For setting, refer to the OPERATING INSTRUCTIONS.

(7) Setting of SERVICE MENU

Verify the setting items of the SERVICE MENU of Table 3, and reset where necessary.

For setting, refer to the SERVICE ADJUSTMENTS.

SERVICE MENU

- 3. AUDIO 4. DEF 5. VSM PRESET 6. STATUS
- 8.OSD/TEXT 9. SHIPPING(OFF)
- 1-9 : SELECT i : EXIT

Fig.1

SYSTEM CONSTANT SET

SOFT VER.=(V*.****) COUNTRY : MODEL :WZ -/+@:STORE | EXIT JVC MD CHASSIS V**

Fig.2

NAME OF REMOTE CONTROL KEY

Names of key	key
INFORMATION	(1)
MUTING	X
MENU	©K)
FUNCTION UP/DOWN	€
FUNCTION -/+	⊕⊙

No. 51551 No.51551

SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

		Setting value		
Setting item	Setting content	AV-32WZ4EP	AV-28WZ4EP / AV-28WZ4EPS	
COUNTRY	> EK> EN> EP> ER> EU	EP	EP	
28INCH	→ 28 → 32 → 29	32	28	
MODEL	→ WFP1 → WZ	wz		

USER SETTING VALUES (TABLE 2)

Setting item	Setting value	Setting item	Setting value
SUB POWER ON		VOLUME	Appropriate sound volume
CHANNEL	1 POSITION	DISPLAY	CHANNEL NUMBER DISPLAY
CHANNEL PRESET	See ; OPERATING INSTRUCTUONS.	ZOOM	REGULAR
3D	SURROND OFF	P BASS	POWER BASS OFF
	MENU SCRE	EN SETTING	
PICTURE SETTING		DIGITAL SURROUND	OFF
TINT C	COOL	PRO LOGIC 3D-PHONIC	
SHARP COLOUR	REFER to VSM SETTING (SERVICE MENU)	MODE LEVEL TV SPEAKER VOLUME (L/R)	CINEMA/SPORT CENTER UR MAX
ECO MODE C	DFF		
PICTURE FEATURES		DOLBY PRO LOGIC MODE TV SPEAKER	NORMAL L/R
		TEST MODE VOLUME	OFF MAX(ALL)
	OFF ON	EXT SETTING	
COLOUR SYSTEM 1	TV : According to preset CH EXT : AUTO	ID DUBBING	BLANK EXT1→EXT2
	PANORAMIC CENTER	FEATURES	
PICTORE TIET	SENTER	SLEEP TIMER BLUE BLACK CHILD LOCK	OFF ON ID: No.0000 ALL CH OFF
SOUND SETTING		INSTALL	
BASS TREBLE BALANCE	(STEREO SOUND) CENTER ON	LANGUAGE	ENGLISH
	HEADPHONE VOLUME :10 TV SPEAKER :OFF		

SERVICE MENU SETTING ITEMS (TABLE 3)

Setting value	Setting item	Setting value
1. VCO 2. DELAY POINT 3. L.V.LEVEL	5. VSM PRESET COOL NORMAL WARM	1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP
1. RGB BLK 2. WDR R 3. WDR G 4. WDR B 5. CUT R 6. CUT G		5. HUE 6. WDR R 7. WDR G 8. WDR B 9. BASS 10. TREBLE
7. CUT B 8. BRIGHT 9. CONT. 10. COLOUR 11. HUE 12. CONT LIMIT 13. PURITY	6. STATUS (Do not adjust)	VPS PDC AUTO SUB SUB VER MTEXT
1. CONC LIMIT 2. A2 ID THR	7. PIP	(Not available in this model)
1. V-SHIFT 2. V-SIZE 3. H-CENT 4. H-SIZE	8. OSD/TEXT (Do not adjust)	1. TEXT MONO H 2. TEXT MIX H
5. EW-PIN 6. TRAPE 7. COR-UP 8. COR-LO 9. ANGLE 10. BOW 11. V-S.CR 12. V-LIN	9. SHIPPING (Do not adjust)	ON/OFF
	1. VCO 2. DELAY POINT 3. L.V.LEVEL 1. RGB BLK 2. WDR R 3. WDR G 4. WDR B 5. CUT G 7. CUT B 8. BRIGHT 9. CONT. 10. COLOUR 11. HUE 12. CONT LIMIT 13. PURITY 1. CONC LIMIT 2. A2 ID THR 1. V-SHIFT 2. V-SIZE 3. H-CENT 4. H-SIZE 5. EW-PIN 6. TRAPE 7. COR-UP 8. COR-LO 9. ANGLE 10. BOW 11. V-S.CR	1. VCO 2. DELAY POINT 3. L.V.LEVEL 1. RGB BLK 2. WDR R 3. WDR G 4. WDR B 5. CUT G 7. CUT B 8. BRIGHT 9. CONT. 10. COLOUR 11. HUE 12. CONT LIMIT 13. PURITY 1. CONC LIMIT 2. A2 ID THR 7. PIP 1. V-SHIFT 2. V-SIZE 3. H-CENT 4. H-SIZE 5. EW-PIN 6. TRAPE 7. COR-LO 9. ANGLE 10. BOW 11. V-S.CR 5. VSM PRESET COOL NORMAL WARM 6. STATUS (Do not adjust) 7. PIP 9. SHIPPING (Do not adjust)

SERVICE ADJUSTMENTS

BEFORE STARTING SERVICE ADJUSTMENT

- There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.
- The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- Make sure that connection is correctly made to AC power source.
- Turn on the power of the TV and measuring instrument for warming up for at least 30 minutes before starting adjustment.
- If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

Preparation for adjustment (presetting):
 Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT:

PICTURE MODE (VSM)	COOL	
SLEEP TIMER	OFF	
SURROUND	OFF	
BALANCE	CENTER	
ECO	OFF	
ZOOM	FULL	

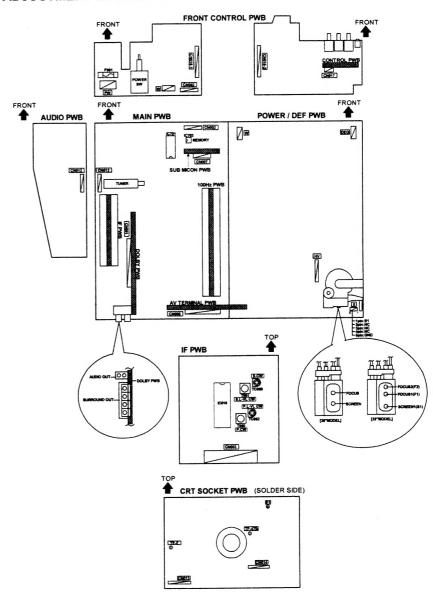
MEASUREING INSTRUMENT AND FIXTURES

- 1. DC voltmeter (or digital voltmeter)
- 2. Oscilloscope
- 3. Signal generator (Pattern generator) [PAL / SECAM / NTSC]
- 4. Remote control unit

ADJUSTMENT ITEMS

- Check of B1 Power supply.
- Check of High voltage.Adjustment of FOCUS.
- IF circuit adjustment.
- VSM preset adjust setting.
- VIDEO / CHROMA circuit adjustment.
- DEFLECTION circuit adjustment.
- TEXT circuit adjustment.
- AUDIO circuit adjustment. (Do not adjust)

ADJUSTMENT LOCATIONS



No.51551

BASIC OPERATION OF SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings (adjustments):

(1) 1. IF · · · · · This mode adjusts the setting values of the IF circuit.

(2) 2.V/C · · · · · This mode adjusts the setting values of the VIDEO / CHROMA circuit. (3) 3.AUDIO · · · · · This mode adjusts the setting values of the multiplicity SOUND circuit.

(4) 4.DEF This mode adjusts the setting values of the DEFLECTION circuit for each aspect mode given below

(100/120Hz)

PANORAMIC (100/120Hz)

•16:9 ZOOM SUBTITLE (100/120Hz)

(5) 5.VSM PRESET····· This mode adjusts the initial setting values of COOL, NORMAL and WARM.

(VSM : Video Status Memory)

(6) 6.STATUS This mode shows the monitor of the VPS. (Do not adjust)

(VPS: Video Program System)

(7) 7.PIP This mode adjust the setting values of PIP circuit.

[Not available in this model] (PIP : Picture In Picture)

(8) 8.OSD/TEXT This mode adjust the setting values of TEXT mode.

(9) 9.SHIPPING · · · · · This mode sets the INITIAL SETTING VALUE. (Do not adjust)

3. BASIC OPERATION OF SERVICE MENU

(1) How to enter SERVICE MENU

Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig. 1 will be displayed

SERVICE MENU SERVICE MENU 3. AUDIO 4. DEF 5. VSM PRESET 6. STATUS 7 PIP 8. OSD/TEXT 9. SHIPPING(OFF) 1-9 : SELECT | : EXIT Fig.1

(2) Selection of SUB MENU SCREEN

Press one of keys 1~9 of the REMOTE CONTROL UNIT and select the SUB MENU SCREEN (See Fig. 3), form the SERVICE MENU.

SERVICE MENU → SUB MENU

1. IF

2. V / C

3. AUDIO

4. DEF.

5. VSM PRESET

6. STATUS

7. PIP

8. OSD / TEXT

9. SHIPPING

NEME OF REMOTE CONTOROL KEY

Names of key	key
INFORMATION	0
MUTEING	X
MENU	ØK)
FUNCTION UP/DOWN	€
FUNCTION -/+	⊕:€

Fig.2

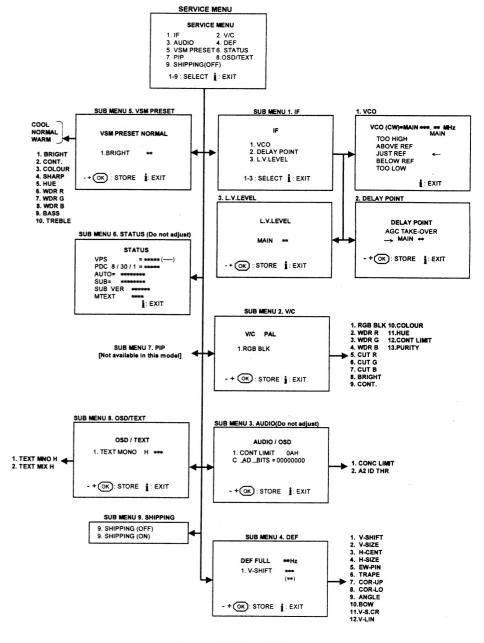


Fig. 3 SUB MENU SCREEN

(3) Method of Setting

1) Method of Setting 1.IF

[1. VCO]

① 1 Key····· Select 1.IF.

② 1 Key Select 1.VCO

3 The VCO (CW) screen will be displayed a allow mark when the AFC voltage is at a certain level.

4 INFORMATION Key · · · · · · · As you press this twice, you will return to the SERVICE MENU.

[2. DELAY POINT]

1 1 Key Select 1.IF.

2 2 Key Select 2.DELAY POINT.

3 FUNCTION -/+···· Set (adjust) the setting values of the setting items.

MENU Key · · · · · · Memorize the set value.

(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF keys

- if you do, the values will not be stored in memory.)

⑤ INFORMATION Key · · · · · · · When this is pressed twice, you will return to the SERVICE MENU.

[3. L.V.LEVEL]

① 1 Key----- Select 1.IF

② 3 Key------ Select 3.L.V.LEVEL.

3 FUNCTION -/+ Key ······ Set (adjust) the setting values of the setting items.

4 MENU Key · · · · · Memorize the set value.

(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF keys

- if you do, the values will not be stored in memory.)

 $\textbf{ § INFORMATION Key} \cdot \cdots \cdot \text{ When this is pressed twice, you will return to the SERVICE MENU. }$

2) Method of setting 2.V/C, 3.AUDIO, 4.DEF, 5.VSM PRESET, and 8.OSD/TEXT.

① 2~5, 8 Key · · · · · · Select one from 2. V/C, 3. AUDIO, 4. DEF, 5. VSM PRESET, and 8.OSD/TEXT.

2 FUNCTION UP/DOUN Key · · · · · Select setting items.

3 FUNCTION -/+---- Set (adjust) the setting values of the setting items.

(When 1.RGB BLK of 2.V/C is selected, press the FUNCTION-/+ key, and the whole will change to a black picture. Press the FUNCTION-/+ or 2 key, and the screen will return to the

original screen.)

MENU Key Memorize the setting value.

(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key -

if you do, the values will not be stored in memory.)

(5) INFOMATION Key Return to the SERVICE MENU screen.

3) Method of setting 6.STATUS and 9.SHIPPING.

6.STATUS (Do not adjust) · · · · · · This mode displayed monitor of VPS. (Video Program Systems)

9.SHIPPING (Do not adjust) · · · · · This mode is set the initial setting value at the time of shipment, you need not to use it for

(4) Release of SERVICE MENU

1) After completing the setting, return to the SERVICE MENU, then again press the INFORMATION key.

CHECK ITEM

Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 Power supply	Signal Generator DC voltmeter	TP-91(B1) TP-E(GND ♣) [X connector on POWER DEF PWB]		1. Receive a any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 1.RGB BLK with Function UP/DOWN key. 4. Press the Function -/+ key, the whole black screen display. 5. Connect a DC voltmeter to TP-91(B1) and TP-E(GND . Make sure that the voltage is DC139.2V ± 2.0V.
Check of High voltage	Signal generator DC voltmeter	CRT anode		1. Receive a and broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 1.RGB BLK with Function UP/DOWN key. 4. Press the Function -/+ key, the whole black screen display. 5. Connect a DC voltmeter to CRT ANODE +1.0kV 6. Make sure that the voltage is 31.0kV -1.5kV

FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of FOCUS [32"MODEL]	Signal generator		FOCUS 1 FOCUS 2 [In FBT]	Receive a cross-hatch signal. Select FULL mode. By turning the FOCUS 1 VR, adjust the picture so that the 5th vertical line from the left side of the cross-hatch picture.
FOCUS 2	FOCUS 1			 becomes thinnest. By turning the FOCUS 2 VR, adjust the picture so that the 3rd horizontal line from the upper side may become uniform at the line center and its periphery. Carry out adjustment by repeating the steps 2 and 3 above. Make sure that when the screen is darkened, the lines remain in good focus.
Adjustment of FOCUS [28"MODEL]	Signal generator		FOCUS VR [In FBT]	Receive a cross-hatch signal. While watching the screen, adjust the FOCUS VR to make the vertical and horizontal lines as fine and sharp as possible. Make sure that when the screen is darkened, the lines remain in good focus.

IFCIRCUIT ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of VCO MAIN]	Remote control unit VCO:CW)=MAIN TOO HIGH ABOVE REF JUST REF BELOW REF	MAIN	P. CW TRANSF. (T050) P.L-VL CW TRIM. C (TC052) [On IF PWB]	Under normal conditions, no adjustment is required. It must not adjust without signal. Receive a broadcast. Select 1.IF from the SERVICE MENU. Press 1 key and select 1.VCO. Select a SECAM L or PAL broadcast channel with the CHANNEL key. Turn the core of P. CW TRANSF, until the arrow mark (←) of the screen points TOO HIGH (Step 1). Turn the core of P. CW TRANSF, until the arrow mark (←) of the screen points TOO LOW (Step 2). Then slowly turn back the core of P. CW TRANSF, until the arrow mark (←) of the screen points TOO LOW (Step 2). Then slowly turn back the core of P. CW TRANSF, until the arrow mark to the screen points TOO LOW (Step 2). Then slowly turn back the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF, until the arrow mark to the core of P. CW TRANSF.
	TOO LOW	αт		 I nen slowly turn back the core of P. CW TRANSF. Until the arrow mark (—) on the screen points JUST REF (Step 3). In the district where SECAM L'(VHF LOW)s broadcast, can received, select a SECAM L's broadcast channel with the statement of the select and select as SECAM to select the select
TOO HIGH ABOVE RE JUST REF	EFERENCE ERENCE EFERENCE	Ste 1 2 ←		CHANNEL key and adjust the P.L-VL CW TRIM.C in the sam manner as for above steps. And readjust P.CW TRANSF., necessary. 9. Press the INFORMATION key three times to return to norms screen. 10. Perform CHANNEL PRESET again, and make sure that eac broadcast is being received properly.
Adjustment of DELAY POINT	Remote control unit		DELAY POINT (AGC TAKE-OVER)	Receive a black and white signal (colour off). Select 1.IF from the SERVICE MENU. Select 2.DELAY POINT by pressing the 2 key on the remot control.
Setting (Adjustment) DELAY PO (AGC TAKE	iNT (ariable li range	nitial setting value 35	Select MAIN or SUB with FUNCTION UP/DOWN key. Adjust the FUNCTION - or + key until video noise disappears. Press the MENU key and memorize the set value. Turn to other channels and make sure that there are n
djustment of V. LEVEL	Signal generator Oscilloscope [H-rate] Remote control unit	EXT-1		 Receive a SECAM-L full field colour bar signal (100% white). Connect an oscilloscope terminated 75 Ω to EXT-1 terminal o (®pin (TV out). Select 1. IF from the SERVICE MENU. Press 3 key and select 3 LV LEVEL. Adjust the LV LEVEL by FUNCTION -/+ key and make the wave detector output 1.0Vp-p. Press the MENU key and memorize the set value.

VSM PRESET SETTING

Item	Measuring instrument	Test point	Adjustment parts		Description			
Setting of VSM PRESET ADJUST	Remote control unit		1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. HUE 6. WDR R 7. WDR G 8. WDR B 9. BASS 10. TREBLE	Select 5 V Adjust the values of table. Press the Respective WARM, are Press the	SM PRESET FUNCTION BRIGHT ~ MENU key are ely select the and make simil MENU key are	MENU key of the from the SERV UP/DOWN and 10.TREBLE to and memorize the VSM PRESET are adjustment and memorize the SINSTRUCTION.	/ICE MENU. d -/+ key to brit o the values sho e set value. mode for NOF as in 3 above. e set value.	ng the own in
			VSi Setting item	M preset mode	COOL	NORMAL	WARM	
			1. BRIGHT SETTING V	'ALUE	-3	+0	+0	
			2. CONT. SETTING V	'ALUE	+12	-4	-12	
			3. COLOUR SETTING V	'ALUE	+2	-1	+0	
			4. SHARP SETTING V	'ALUE	+2	+2	+0	
			5. HUE SETTING V	ALUE	+0	+0	+0	
			6. WDR R SETTING V	ALUE	-16	+5	+11	
			7. WDR G SETTING V	ALUE	-4	+6	+5	
			8. WDR B SETTING V	ALUE	+2	+0	-6	
			9. BASS SETTING V	ALUE	+0	+0	+0	
			10.TREBLE SETTING V	ALUE	+0	+0	+0	
				SETTING V	ALUES OF V	SM PRESET		

VIDEO/CHROMA CIRCUIT ADJUSTMENT [MAIN]

The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.

The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

Setting Item	Initial sett	ing value	Colour system	Initial setting value		
(Adjustment Item)	PAL / SECAM NTSC 3.58 NTSC 4.43 Setting item		Setting item	PAL/ SECAM	NTSC 3.58 NTSC 4.43	
1.RGB BLK		<u> </u>	8.BRIGHT	+000		
2.WDR R	+010		9.CONT	+012		
3.WDR G	-007		10.COLOUR	-008	-011	
4.WDR B (Do not adjust)	+000		11.HUE		-002	
5.CUT R	+000		12.CONT. LIMIT(Do not adjust)	+001		
6.CUT G	+000		13.PURITY(Do not adjust)	+000		
7.CUT B	+000	-				

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE	Signal generator Remote control unit		2.WDR R 3.WDR G 5.CUT R 6.CUT G 7.CUT B	Set the PICTURE MODE to NORMAL. Receive a black and white signal(colour off). Select 2. V/C from the SERVICE MENU. Modify 2. WDR R and 3.WDR G data to adjust the white balance (high light). Modify 5. CUT R, 6. CUT G and 7. CUT B data to adjust the white balance (low light). Press the MENU key and memorize the set value.
Adjustment of SUB BRIGHT	Remote control unit		8.BRIGHT	1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 8.BRIGHT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION -/+ key. 5. If the brightness is not the best with the initial setting value make fine adjustment until you get the best brightness. 6. Press the MENU key and memorize the set value.
Adjustment of SUB CONT.	Remote control unit		9.CONT.	1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 9.CONT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION - or + key. 5. If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast. 6. Press the MENU key and memorize the set value.

ltem	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB	Remote control unit		10.COLOUR (PAL~NTSC)	[Method of adjustment without measuring instrument]
COLOUR I			PAL COLOUR	(PAL COLOUR) 1. Receive PAL broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 10.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value for PAL COLOUR with the FUNCTION - or + key. 5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. 6. Press the MENU key and memorize the set value.
			SECAM COLOUR	(SECAM COLOUR) 1. Receive a SECAM broadcast. Make fine adjustment of SECAM COLOUR in the same manner as for above.
			NTSC COLOUR	(NTSC 3.58 COLOUR) 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal from the EXT terminal. 2. Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above.
				(NTSC 4.43 COLOUR) 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

ltem	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR II	Signal generator Oscilloscope	TP-47B TP-E(⊥) [CRT SOCKET	10.COLOUR (PAL~NTSC)	[Method of adjustment using measuring instrument]
	Remote control unit	PWB] PAL COLOUR	(PAL COLOUR) 1. Receive a PAL full field colour bar signal(75% white). 2. Select 2.V/C from the SERVICE MENU. 3. Select 10.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value of PAL COLOUR with the FUNCTION - or + key. 5. Connect the oscilloscope between TP-47B and TP-E 6. Adjust PAL COLOUR and bring the value of (A) in the illustration to -7V (voltage difference between white (w) and blue (B)). 7. Press the MENU key and memorize the setting value.	
	Cy Mg B	A) (-)	SECAM COLOUR	(SECAM COLOUR) 1. Receive a SECAM full field colour bar signal(75% white). 2. Set the initial setting value of SECAM COLOUR with the FUNCTION -/+ key. 3. Adjust SECAM COLOUR and bring the value of (A) of the illustration to -6V(W~B). 4. Press the MENU key and memorize the setting value.
		(*)	NTSC COLOUR	(NTSC 3.58 COLOUR) 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Set the initial setting value of NTSC 3.58 COLOUR with the FUNCTION -/+ key. 3. Adjust NTSC 3.58 COLOUR and bring the value of (A) of the illustration to -3V(W~B). 4. Press the MENU key and memorize the setting value.
				(NTSC 4.43 COLOUR) 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of	Remote control unit		11.HUE	[Method of adjustment without measuring instrument]
SUB HUE I			NTSC 3.58 HUE	[NTSC 3.58 HUE] 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 11.HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION -/+ key. 5. If you cannot get the best hue with the initial setting value, make fine adjustment until you get the best hue. 6. Press the MENU key and memorize the set value.
			NTSC 4.43 HUE	[NTSC 4.43 HUE] 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.
Adjustment of	Signal generator	TP-47B TP-E(↓)	11.HUE	[Method of adjustment using measuring instrument]
•	Oscilloscope Remote control unit	[CRT SOCKET PWB]	NTSC 3.58 HUE	[NTSC 3.58 HUE] 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 11.HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION - or + key. 5. Connect the oscilloscope between TP-47B and TP-E 6. Adjust NTSC 3.58 HUE to bring the value of (B) in the illustration to -13V (voltage difference between white (W) and magenta(Mg)). 7. Press the MENU key and memorize the setting value
w	(B) (C) (B) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	(÷)	NTSC 4.43 HUE	[NTSC 4.43 HUE] 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

DEFLECTION CIRCUIT ADJUSTMENT

There are 2 modes of the adjustment (1) 100Hz mode (①FULL ②PANORAMIC, ③16:9 ZOOM SUBTITLE), (2) 120Hz mode (each aspect mode) · · · · · · depending upon the kind of signals (vertical frequency 100Hz / 120Hz).

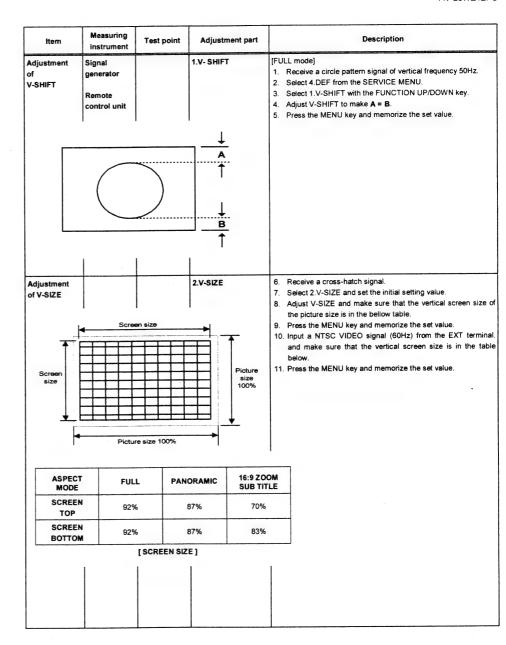
- When the 100Hz FULL mode has been established, the setting of other modes will be done automatically.
 However, if the picture quality has not been optimized, adjust each mode again, respectively.
- The adjustment using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
 Regular and Zoom switching is conducted not by the Deflection circuit, but by the 100 Hz PWB. Therefore, the deflection system cannot be adjusted in these modes.

[AV-32WZ4EP]

		Initial setting value								
Setting item	Adjustment name	FULL		PANORAMIC		16: 9 ZOOM SUBTITLE				
		100Hz	120Hz	100Hz	120Hz	100Hz	120Hz			
1.V- SHIFT	Vertical center	+1	-1	-2	0	-4	-2			
2.V-SIZE	Vertical height	-5	-1	+2	+1	+2	+1			
3.H-CENT	Horizontal center	-1	-2	+1	0	0	0			
4.H-SIZE	Horizontal width	-7	-2	. 0	0	0	0			
5.EW-PIN	Side pin correction	+22	0	+5	+2	+5	+2			
6.TRAPEZ	Trapezoidal distortion correction	+3	0	+1	0	+1	-1			
7.COR-UP	Corner upper correction	+2	+1	-1	-2	0	-1			
8.COR LO	Corner lower correction	+1	0	-6	-3	-8	-2			
9.ANGLE	Angle correction	0 (Fixed)	0 (Fixed)	0 (Fixed)	(Fixed)	0 (Fixed)	0 (Fixed)			
10.BOW	Bow-shaped distortion correction	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)			
11.V-S.CR	Vertical heigh correction	+6 (Fixed)	0 (Fixed)	+9 (Fixed)	0 (Fixed)	+11 (Fixed)	0 (Fixed)			
12.V-LIN	Vertical Linearity	-7 (Fixed)	+2 (Fixed)	-22 (Fixed)	0 (Fixed)	-30 (Fixed)	0 (Fixed)			

[AV-28WZ4EP / AV-28WZ4EPS]

		Initial setting value							
Setting item	Adjustment name	FULL		PANO	RAMIC	16: 9 ZOOM SUBTITLE			
		100Hz	120Hz	100Hz	120Hz	100Hz	120Hz		
1.V- SHIFT	Vertical center	-1	-2	-2	+1	-5	-1		
2.V-SIZE	Vertical height	-5	-2	+3	+1	+3	+1		
3.H-CENT	Horizontal center	-2	-1	+1	0	0	0		
4.H-SIZE	Horizontal width	-11	-2	0	0	0	0		
5.EW-PIN	Side pin correction	+21	-1	+4	0	+6	0		
6.TRAPEZ	Trapezoidal distortion correction	0	0	0	0	0	-1		
7.COR-UP	Corner upper correction	-3	+1	-1	+1	-1	0		
8.COR LO	Corner lower correction	+3	0	-5	+1	-8	+1		
9.ANGLE	Angle correction	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)		
10.BOW	Bow-shaped distortion correction	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)		
11.V-S.CR	Vertical heigh correction	+7 (Fixed)	0 (Fixed)	+6 (Fixed)	0 (Fixed)	+8 (Fixed)	0 (Fixed)		
12.V-LIN	Vertical Linearity	-7 (Fixed)	+2 (Fixed)	-22 (Fixed)	0 (Fixed)	-30 (Fixed)	(Fixed)		



	Item	Measuring instrument	Test point	Adjustment par	t	Description
	stment of	Signal generator Remote control unit		3.H-CENT.	13. S 14. A	eceive a circle pattern signal. elect 4.H-CENT and set the initial setting value. djust H-CENT to make C=D. ress the MENU key and memorize the set value.
		C		D		
Adju of H.Si	stment ZE			4.H-SIZE	17. S 18. A of 19. P 20. in	eceive a cross-hatch signal. elect 4.H-SIZE and set the initial setting value. djust H-SIZE and make sure that the horizontal screen size f the picture size is in the bellow table. ress the MENU key and memorize the set value. pput a NTSC VIDEO signal (60Hz) from the EXT terminal, and take sure that the horizontal screen size is in the table below. ress the MENU key and memorize the set value.
	ASPECT MODE H SIZE	FUL 929		SUI	ZOOM BTITLE	
		32,	[SCREEN SIZ			I
Adju EW-I	stment of PIN	s	traight —	5.EW-PIN	23. A	elect 5.EW-PIN and set the initial setting value djust EW-PIN and make the 2nd.vertical lines at the left and ght edges of the screen straight. Also make sure that the 3rd artical lines are straight. ress the MENU key and memorize the set value.

ltem	Measuring instrument	Test point	Adjustment part	Description
Adjustment of TRAPEZ	Signal generator Remote control unit	Parallel —	6.TRAPEZ	25. Receive a cross-hatch signal. 26. Select 6.TRAPEZ with the FUNCTION UP/DOWN key. 27. Set the initial setting value of TRAPEZ with the FUNCTION or + key. 28. Adjust TRAPEZ and bring the VERTICAL lines at the right and left edges of the screen parallel. 29. Press the MENU key and memorize the set value.
Adjustment of CORNER UP/ LOW	Signal generator Remote control unit	S	7.COR-UP 8.COR-LO	30. Select 8.COR-LO with the FUNCTION UP / DOWN key. 31. Set the initial setting value of COR-LO with the FUNCTION – or + key. 32. Adjust COR-LO, and bring the straight line at the low corner. 33. Select 7.COR-UP with the FUNCTION UP / DOWN key. 34. Set the initial setting value of COR-UP with the FUNCTION – or + key. 35. Adjust COR-UP, and bring the straight line at the upper corner. 36. Press the MENU key and memorize the set value.
Adjustment of ANGLE	Signal generator Remote control unit	-	9.ANGLE	In case where there is a parallelogrammical distortion of images on the screen. (Fig. A) 37. Select 9.ANGLE with the FUNCTION UP / DOWN key. 38. Adjust ANGLE, and bring the VERTICAL lines straight. 39. Press the MENU key and memorize the set value.

30

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of BOW	Signal generator Remote control unit		10.BOW	In case where there is a bow-shaped distortion of images on the screen. (Fig.C) 3. Select 10.BOW with the FUNCTION UP/DOWN key. 41. Adjust BOW, and bring the VERTICAL lines straight. 42. Press the MENU key and memorize the set value.
	(C)		(D)	
Adjustment of V-S.CR & V.LINE			11.V-S.CR 12.V.LIN. TOP CENTER BOTTOM	When the vertical linearity has been deteriorated remarkably, perform the following steps. Receive a cross-hatch signal. Select 12. V.LIN with the FUNCTION UP / DOWN key. Set the initial setting value of 12. V.LIN with the FUNCTION -/+ key. Select 11. V.S.CR. with the FUNCTION UP / DOWN key. The select 11. V.S.CR. with the FUNCTION UP / DOWN key. Very the initial setting value of 11. V-S.CR. with the FUNCTION -/+ key. Adjust 12. V.LIN and 11. V-S.CR. so that the spaces of each line on TOP, CENTER, and BOTTOM become uniform. NOTE: Do not adjust "PANORAMIC" & "16: 9 ZOOM SUBTITLE" mode.
				At first the adjustment in 100Hz-FULL mode should be done, then the data for the other aspect mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 120Hz (NTSC EXT mode) FULL mode. If the adjustment in 100Hz each aspect mode has been done and stored, the data for the same aspect modes in 120Hz is corrected in the respective value. Only the data for the other aspect mode in 120Hz is corrected for itself.

TEXT CIRCUIT ADJUSTMENT

Setting item	Variable rang	Initial setting Value
1. TEXT MONO H	00H ∼ FFH	0DH
2. TEXT MIX H (Do not adjust)	00H ∼ FFH	00Н

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of TEXT MONO HORIZONTAL POSITION	MODEL ALL MODELS	INDEX	1.TEXT MONO H	Under normal conditions, no adjustment is required. Select 8.OSD / TEXT from SERVICE MENU. Select 1.TEXT MONO H with the FUNCTION UP/DOWN key. Push text key to get a picture of "TEXT-MONO H". Hush "SUBPAGE" key. It gets a picture as shown left. Adjust the value of the distance "d" as shown left with the FUNCTION -/+ key. Push "SUBPAGE" key to check adjustment every adjust. Press the MENU Key, and memorize the set values.

AUDIO CIRCUIT ADJUSTMENT

3. AUDIO

Setting item	Variable range	fixed value
1. CONC LIMIT(Do not adjust)	00H∼FFH	0AH
2. A2 ID THR(Do not adjust)	00H∼FFH	19H

PARTS LIST

CAUTION

- The parts identified by the △ symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

	RESISTORS		CAPACITORS
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CHVR	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

				TOLER	ANCES				
F	G	J	к	М	N	R	н	z	Р
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

CONTENTS

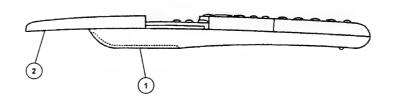
■ USING PW BOARD & REMOTE CONTROL UNIT······	
■ REMOTE CONTROL UNIT PARTS LIST · · · · · · · · · · · · · · · · · · ·	
■ EXPLODED VIEW PARTS LIST (AV-32WZ4EP)	
■ EXPLODED VIEW I (AV-32WZ4EP)	
■ EXPLODED VIEW PARTS LIST (AV-28WZ4EP / AV-28WZ4EPS)	
■ EXPLODED VIEW II (AV-28WZ4EP / AV-28WZ4EPS)	
■ EXPLODED VIEW III · · · · · · · · · · · · · · · · ·	38
■ PRINTED WIRING BOARD PARTS LIST	
AV-32WZ4EP	
AV-32WZ4EP	
MAIN PW BOARD ASS'Y	
POWER / DEF PW BOARD ASS'Y	
CRT SOCKET PW BOARD ASSY	-
AUDIO PW BOARD ASS' Y	
FRONT CONTROL PW BOARD ASS'Y	
DOLBY PW BOARD ASSY	
● IF PW BOARD ASS'Y·····	
AV TERMINAL PW BOARD ASSY	
SUB MICON & AUTO PANORAMA PW BOARD ASS'Y	
100Hz PW BOARD ASS'Y	52
AV-28WZ4EP / AV-28WZ4EPS	
MAIN PW BOARD ASS'Y	
POWER / DEF PW BOARD ASS'Y	
CRT SOCKET PW BOARD ASS'Y	
AUDIO PW BOARD ASS' Y	
● FRONT CONTROL PW BOARD ASS'Y·····	
DOLBY PW BOARD ASS'Y · · · · · · · · · · · · · · · · · · ·	
● IF PW BOARD ASS'Y·····	
AV TERMINAL PW BOARD ASS'Y · · · · · · · · · · · · · · · · · · ·	
SUB MICON & AUTO PANORAMA PW BOARD ASSY	
● 100Hz PW BOARD ASS'Y · · · · · · · · · · · · · · · · · · ·	63
PACKING	
■ PACKING PARTS LIST·····	67

USING PW BOARD & REMOTE CONTROL UNIT

PWB ASS'Y	AV-32WZ4EP	AV-28WZ4EP AV-28WZ4EPS
MAIN PWB	SMD-1002A-U2	SMD-1003A-U2
POWER / DEF PWB	SMD-2002A-U2	SMD-2003A-U2
DOLBY PWB	SMD0D001A-U2	4
IF PWB	SMD0F001A-U2	4
SUB MICON & AUTO PANORAMA PWB	SMD0W001A-U2	4
100Hz PWB	SMD0Z002A-U2	SMD0Z003A-U2
CRT SOCKET PWB	SMD-3003A-U2	SMD-3002A-U2
AUDIO PWB	SMD-6002A-U2	4
FRONT CONTROL PWB	SMD-8002A-U2	
AV TERMINAL PWB	SMD0J001A-U2	4
REMOTE CONTROL UNIT	RM-C793-1E	

REMOTE CONTROL UNIT PARTS LIST (RM-C793-1E)

⚠ Ref. No.	Part No.	Part Name	Description	Local
1 2	BGV110201A BGV110307A	BATTERY COVER SLIDE COVER		

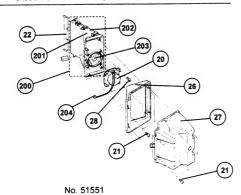


AV-32WZ4EP

EXPLODED VIEW PARTS LIST

7 1 1	LODED				
Δ	Ref.No.	Part No.	Part Name	Description	Local
Δ	V01 L01	W76ESF031X44 CELD062-001J2 CELD904-001	ITC TUBE(C) DEGAUSSING COIL ROTATION COIL	Inc.DY,PC,WED	* *
Δ	L03 T2551	QQH0054-002-I2	FBT	(SERVICE)	*
Δ	1 2 3	CM12737-003-E GB5A4016N LC20092-008A-U	REAR COVER TAPPING SCREW RATING LABEL	(×13)For REAR COVER For ENG/GER/FRA	*
$\overline{\Delta}$	4	LC20093-008A-U	RATING LABEL	For ENG/GER/ITA	*
Δ	5 6 7 8 9 10 11	CM12923-A01-E LC10385-0018-U QYSBSB3012M CM12925-B01-E CM12925-A02-E QNZ0407-001 CHFD125-10BD AEEMP001-185	CHASSIS BASE AV BOARD TAPPING SCREW CONTROL BASE L CONTROL BASE R ANODE WIRE ASSY FFC WIRE POWER CORD	(×9)For AV BOARD	* * * * * * *
Δ	13 14 15 16 17 18 20	CM46618-A01-E CHGB0029-0C CHGB0017-0B CE42112-002 QR0491-001 CM36311-001 CEBSF10P-05KJ6	POWER CORD CLAMP BRAIDED ASSY BRAIDED SUB ASSY PALJ CONNECTOR FILTER KNOB CAP SPEAKER	(×2) (×2)SP01,SP02	*
	21	GBSA4016N	TAPPING SCREW	(×20)For DOME BOX	*
	22 24 25 26 27 28 29 200	CM22951-001 SBSB3012M CHGY0017-0A-YS CM12921-001-E CM12922-A01-E GBSA4016N GBSA4016N 2528MXSP-SZE-E	DOME SPACER TAPPING SCREW ANTENNA CABLE DOME ADAPTER DOME BOX TAPPING SCREW TAPPING SCREW DOME SPEAKER	(×2) FOR OPERATION SHEET (×2) (×2) (×8) (×8)FOR SPEAKER (×4)FOR DOME SPEAKER (×2) Inc.No.201~204	* * * * * *
	201 202 203 204 100 101 102	CM12463-D01-E CM12464-D01-E CEB5503K-03KJ2 CHGS0057-AA-N CM12587-B0Q-E CM12966-A01-E CM48229-00A CM36223-001	HORN HORN PANEL SPEAKER S.P WIRE ASSY F.CABINET ASSY FRONT PANEL DOOR LATCH L.E.D.LENS	(×2) (×2) (×2) (×2) (×2) Inc.No.101~113	*
	104 105 106 107 108 109 110	CM36857-001 CM23131-003-E CM36172-00A-S CM36225-010-E CM35235-003-H CM48125-001 CM48076-A01 CM35893-A01-E	OPERATION SHEET DOOR SPEAKER NET POWER KNOB SPRING JVC MARK CDS WINDOW CHASSIS RAIL	(SERVICE) (×2) (SERVICE)	* * * *
	112 113	CM35865-00U CM35865-00V	INSULATER INSULATOR	(SERVICE) (SERVICE)	

EXPLODED VIEW I **DOME SPEAKER (32")**

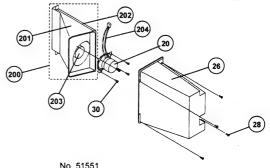


AV-28WZ4EP / AV-28WZ4EPS

EXPLODED VIEW PARTS LIST

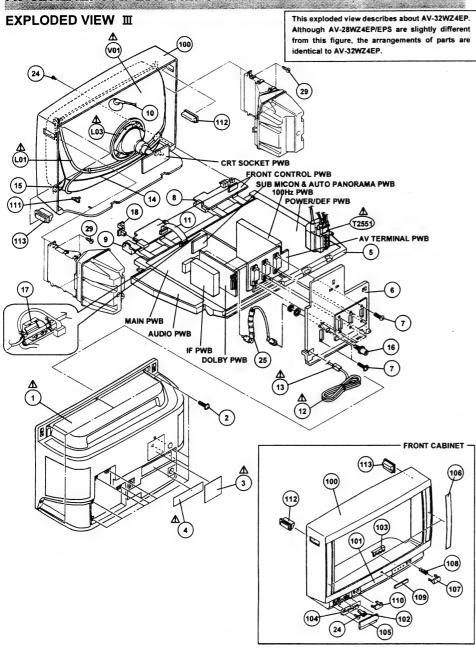
△ Ref.No.	Part No.	Part Name	Description	Loc
Δ V01 Δ L01 Δ L03	W66ESF002X44 CELD061-001J2 CELD904-001	ITC TUBE(C) DEGAUSSING COIL ROTATION COIL	Inc.DY,PC,WED	
Δ T2551 Δ 1	CETH026-00B CM12582-A04-E	FBT REAR COVER	(SERVICE)	
2	GBSA4016N	TAPPING SCREW	(×13)For REAR COVER	
Å 3	LC20092-007A-U	RATING LABEL	For ENG/GER/FRA AV-28WZ	
∆ 3	LC20092-016A-U	RATING LABEL	For ENG/GER/FRA AV-28WZ	4EPS
A 4	LC20093-007A-U	RATING LABEL	For ENG/GER/ITA AV-28WZ	
△ 4 5	LC20093-016A-U CM12923-A01-E	RATING LABEL CHASSIS BASE	For ENG/GER/ITA AV-28WZ	#EPS
6	LC10385-001B-U	AV BOARD		
7	QYSBSB3012M	TAPPING SCREW	(×9)For AV BOARD	
8	CM12925-B03-E	CONTROL BASE L		
9	CM12925-A04-E	CONTROL BASE R		
10	CETW004-055	ANODE WIRE		
<u>11</u>	CHFD125-06BD AEEMP001-185	FFC WIRE POWER CORD		
∆ 12 ∆ 13	CM46618-A01-E	POWER CORD CLAMP		
14	CHGB0029-08	BRAIDED ASSY		
15	CHGB0017-0B	BRAIDED SUB ASSY	(×2)	
16 17	CE42112-002	PALJ CONNECTOR		
18	QQR0491-001 CM36311-001	FILTER KNOB CAP		
20	CEBSF10P-05KJ6	SPEAKER	(×2)SP01,SP02	
25	CHGY0017-0A-YS	ANTEBBA CABLE		
26	CM12878-B01-E	DOME BOX	(×2)	
28 30	GBSA4016N GBSA4016N	TAPPING SCREW TAPPING SCREW	(×8)For SPEAKER BOX (×8)For SPEAKER	
200	2528MXSP-SZE-E	DOME SPEAKER	(×2)Inc.No.201~204	
201	CM12463-D01-E	HORN	(×2)	
202	CM12464-D01-E	HORN PANEL	(×2)	
203	CEBSS03K-03KJ2	SPEAKER	(×2)	
204	CHGS0057-AA-N	S.P WIRE ASSY	(×2)	
100 100	CM12833-AOL-E CM12833-AOK-E	F.CABINET ASSY	Inc.No.101~113 AV-28WZ4	
101	CM12966-A01-E	F.CABINET ASSY FRONT PANEL	Inc.No.101~113 AV-28WZ4	EPS
102	CM48229-00A	DOOR LATCH		
103	CM36223-001	L.E.D.LENS		
104	CM36587-002	OPERATION SHEET		
105	CM23132-010-E	DOOR	(SERVICE) AV-28WZ4EP	
105 106	CM23132-008-E CM36171-00A-H	DOOR SPEAKER NET	(SERVICE) AV-28WZ4EPS (×2) AV-28WZ4EP	
106	CM36171-00C-H	SPEAKER NET	(×2) AV-28WZ4EPS	
107	CM36225-010-E	POWER KNOB	(SERVICE)	
108	CM35235-003-H	SPRING	41/ 2017455	
109	CM48125-001	JVC MARK	AV-28WZ4EP	
109	CM48125-004	JVC MARK	AV-28WZ4EPS	
110 111	CM48076-A01 CM35893-A01-E	CDS WINDOW CHASSIS RAIL	(*3)	
112	CM35865-00U	INSULATER .	(×2) (SERVICE)	
113	CM35865-00V	INSULATOR	(SERVICE)	

EXPLODED VIEW II **DOME SPEAKER (28")**



No. 51551

AV-32WZ4EP / AV-28WZ4EP / AV-28WZ4EPS



AV-32WZ4EP

PRINTED WIRING BOARD PARTS LIST

MAIN	PW	BOARD	ASS'Y	(SMD-	1002A	-U2
------	----	-------	-------	-------	-------	-----

Symbol No.	Part No.	Part Name	Description Local
RES	ISTOR		
R1002	WRSA02J-103X	MG R	10kΩ 1/10W J
R1003-06	NRSA02J-102X	MG R	1kΩ 1/10W J
R1101-03	NRSA02J-102X	MG R	1kΩ 1/10W J
R1104	NRSA02J-681X	MG R	
R1105	NRSA02J-392X	MG R	3.9kΩ 1/10W J
R1107	NRSA02J-391X	MG R	390Ω 1/10W J
R1108	NRSA02J-102X	MG R	1kΩ 1/10W J 4
R1109	NRSA02J-103X	MG R	10kΩ 1/10W J
R1110	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1111	NRSA02J-821X	MG R	820Ω 1/10W J
R1112	NRSA02J-101X	MG R	100Ω 1/10W J
R1113	NRSA02J-102X	MG R	1kΩ 1/10W J
	NRSA02J-OROX	MG R	0.0Ω 1/10W J
R1121-22		MG R	1.5kΩ 1/10W J
R1123	NRSA02J-152X		
R1124 R1125-27	NRSA02J-821X NRSA02J-103X	MG R MG R	820Ω 1/10W J 10kΩ-1/10W J
R1128	NRSA02J-153X	MG R	15kΩ 1/10W J 1kΩ 1/10W J
R1131-33	NRSA02J-102X	MG R	
R1134	NRSA02J-681X	MG R	680Ω 1/10W J
R1135	NRSA02J-561X	MG R	560Ω 1/10W J
R1136	NRSA02J-681X	MG R	680Ω 1/10W J
R1137	NRSA02J-102X	MG R	1kΩ 1/10W J
R1138	NRSA02J-391X	MG R	390Ω 1/10W J
R1140	MRSA02J-103X	MG R	10kΩ 1/10W J
R1141	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1142	NRSA02J-821X	MG R	820Ω 1/10W J
R1151	NRSA02J-222X	MG R	2.2kQ 1/10W 3
	NRSA02J-102X	MG R	1kΩ 1/10W J
R1152-53			680Ω 1/10W J
R1154	NRSA02J-681X	NG R	
R1155	WRSA02J-561X	MG R	560Ω 1/10W J
R1156	WRSA02J-681X	MG R	680Ω 1/10W J
R1157	NRSA023-102X	MG R	1kΩ 1/10W J
R1158	WRSA02J-391X	MG R	390Ω 1/10W J
R1160	WRSA02J-103X	MG R	10kΩ 1/10W J
R1161	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R1162	WRSA02J-821X	MG R	820Ω 1/10W J
	NRSA02J-103X	MG R	10kΩ 1/10W J
R1171		MG R	5.6kΩ 1/10W J
R1172	NRSA02J-562X		
R1173	HRSA02J-221X	MG R	220Ω 1/10W J
R1174	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1175	WRSA02J-102X	MG R	1kΩ 1/10W J
R1176	NRSA02J-392X	MG R	3.9kΩ 1/10W J
R1177	NRSA02J-472X	MG R	4.7kΩ 1/10M J
R1178	NRSA02J-OROX	MG R	0.0Ω 1/10W J
R1179	NRSA02J-272X	MG R	2.7kΩ 1/10W J
R1201-02	MRSA02J-103X	MG R	10kΩ 1/10W J
R1201-02	NRSA02J-750X	MG R	75Ω 1/10W J
R1203	QRK126J-151X	C R	150Ω 1/2W J
	,	MG R	100Ω 1/10W J
R1205	NRSA02J-101X		
R1206	QRG01GJ-101	OM R	
R1207	NRSA02J-223X	MG R	22kΩ 1/10W J
R1208	NRSA02J-473X	MG R	47kΩ 1/10W J
R1209	NRSA02J-683X	MG R	68kΩ 1/10W J
R1210	NRSA02J-153X	MG R	15kΩ 1/10W J
R1211	NRSA02J-103X	NG R	10kΩ 1/10W J
R1211	NRSA02J-103X NRSA02J-473X	MG R	47kΩ 1/10W J
01717	MDCAGO I 2724	MG R	27kΩ 1/10W ±
R1213	NRSA02J-273X		
R1214	NRSA02J-103X	MG R	10kΩ 1/10W J
R1215	NRSA02J-222X	MG R	2.2kΩ 1/10W J
R1216	NRSA02J-333X	MG R	33kΩ 1/10W J
R1217	MRSA02J-222X	MG R	2.2kΩ 1/10W J

Symbol No.	Part No.	Part Name	Description
RES	STOR		
R1218	NRSA02J-333X	MG R	33kΩ 1/10W _
R1219	NRSA02J-823X	MG R	82kΩ 1/10W
R1220	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
		MG R	
R1221	NRSA02J-391X		390Ω 1/10W .
R1222	NRSAO2J-823X	MG R	82kΩ 1/10W 3
R1223	NRSA02J-OROX	NG R	0.0Ω 1/10W 3
R1224	NRSA02J-391X	MG R ′	390Ω 1/10W .
R1225-26	NRSA02J-223X	MG R	22kΩ 1/10W
R1227	NRSA02J-104X	MG R	100kΩ 1/10w .
R1228	NRSA02J-680X	MG R	68Ω 1/10W J
R1229	QRK126J-181X	C R	180Ω 1/2₩ .
			100Ω 1W
R1231	QRG01GJ-101	OM R	
R1232	WRSA02J-101X	MG R	100Ω 1/10W
R1233	MRSAO2J-222X	MG R	2.2kΩ 1/10W 3
R1242	MRSA02J-223X	MG R	22kΩ 1/10W 3
R1243	MRSA02J-473X	MG R	47kΩ 1/10W 3
R1244	WRSA02J-683X	MG R	68kΩ 1/10W 3
R1245	WRSA02J-153X	MG R	15kΩ 1/10W J
R1246	NRSA02J-103X	MG R	10kΩ 1/10W
		MG R	
R1247	MRSA02J-473X		
R1248	NRSA02J-273X	MG R	27kΩ 1/10W 3
R1249	NRSA02J-103X	MG R	10kΩ 1/10W _
R1250	NRSA02J-222X	MG R	2.2kΩ 1/10W .
R1251	NRSA02J-333X	MG R	33kΩ 1/10W
R1252	NRSA02J-222X	MG R	2.2kΩ 1/10W
R1253	NRSA02J-333X	MG R	33kΩ 1/10W .
R1254	NRSA02J-823X	MG R	82kΩ 1/10W J
R1255	NRSA02J-OROX	MG R	0.0Q 1/10W 3
R1256	NRSA02J-391X	MG R	390Ω 1/10W J
R1257	NRSA02J-823X	MG R	82kΩ 1/10W .
R1258	NRSA02J-OROX	MG R	0.0Ω 1/10W J
R1259	NRSA02J-391X	MG R	390Ω 1/10W J
R1260-61	NRSA02J-223X	MG R	22kΩ 1/10W J
R1262	NRSA02J-104X	MG R	100kΩ 1/10W 3
R1263	NRSA02J-222X	MG R	2.2kΩ 1/10W J
		MG R	
R1264	NRSA02J-333X		
R1265	NRSA02J-222X	MG R	2.2kΩ 1/10W .
R1266	NRSA02J-333X	MG R	33kΩ 1/10₩ J
R1267-69	NRSA02J-750X	MG R	75Ω 1/1 0N J
R1277-79	NRSA02J-750X	MG R	75Ω 1/10W J
R1280	NRSA02J-223X	MG R	22kΩ 1/10W
R1281	NRSA02J-473X	MG R	47kΩ 1/10W
R1282	NRSA02J-683X	MG R	68kΩ 1/10W .
		MG R	
R1283	NRSA02J-153X		15kΩ 1/10W
R1284	WRSA02J-103X	MG R	10kΩ 1/10W
R1285	NRSA02J-473X	MG R	47kΩ 1/10W _
R1286	NRSA02J-273X	MG R	27kΩ 1/10W
R1287	NRSA02J-103X	MG R	10kΩ 1/10W
R1288	NRSA02J-222X	MG R	2.2kΩ 1/10W
R1289	NRSA02J-333X	MG R	33kΩ 1/10W
		MG R	
R1290	NRSA02J-222X		2.2kΩ 1/10W J
R1291	NRSA02J-333X	MG R	33kΩ 1/10W
R1292	NRSA02J-471X	MG R	470Ω 1/10W
R1301	NRSA02J-221X	MG R	220Ω 1/10W J
R1302	NRSA02J-471X	MG R	470Ω 1/10W
R1303	NRSA02J-221X	MG R	220Ω 1/10W
D1204	NRSA02J-471X	MG R	470Ω 1/10W
R1304			47012 1/10W .
R1305	NRSA02J-221X	MG R	220Ω 1/10W .
R1306	NRSA02J-271X	MG R	270Ω 1/10W :
R1307	NRSA02J-221X	MG R	220Ω 1/10W J
		MG R	

∆ Symbol No. Part No.	Part Mame	Description Local	Δ Symbol Ho. Part Ho.	Part Name	Description Local	Δ Symbol No. Part No. Part Name	Description Local	△ Symbol No. Part No. Part Name	Description Local
RESISTOR			RESISTOR			RESISTOR		CAPACITOR	
R1309 MR5A02J-221X R1310 MR5A02J-271X R1311 MR5A02J-21X R1312 MR5A02J-271X R1313 MR5A02J-271X R1314-15 MR5A02J-271X R1316 MR5A02J-152X R1317-18 MR5A02J-151X	MG R MG R MG R MG R MG R MG R MG R	2200 1/10M J * 4700 1/10M J * 2200 1/10M J * 2200 1/10M J * 2200 1/10M J * 2200 1/10M J * 4700 1/10M J * 1.5k0 1/10M J * 1000 1/10M J *	R1601 NRSA02J-103X R1602 NRSA02J-104X R1610 NRSA02J-471X R1611 NRSA02J-0R0X R1612 NRSA02J-0R0X R1613-14 NRSA02J-163X R1615 NRSA02J-681X R1616 NRSA02J-102X	NG R MG R NG R MG R MG R MG R MG R	10kG 1/10W J * 100kG 1/10W J * 470G 1/10W J * 0.0G 1/10W J * 550G 1/10W J * 12kG 1/10W J * 16kG 1/10W J *	R1751-52 MRSA021-103X MG R R1753 MRSA021-472X MG R R1754 MRSA021-103X MG R R1755 MRSA021-103X MG R R1756-57 MRSA021-103X MG R R1756-59 MRSA021-103X MG R R1750 MRSA021-103X MG R R1760 MRSA021-221X MG R R1761-65 MRSA021-123X MG R	10kΩ 1/10N J * 4,7kΩ 1/10N J * 10kΩ 1/10N J * 4,7kΩ 1/10N J * 4,7kΩ 1/10N J * 10kΩ 1/10N J * 1200 1/10N J * 1kΩ 1/10N J * 2200 1/10N J *	C1141 MC21HK-103X C CAP. C1151 QETMIAM-2277 E CAP. C1152 MC21HK-103X C CAP. C1153 QETMIAM-1077 E CAP. C1154 MC21H-121X C CAP. C1154 MC21H-121X E CAP. C1155 QETMICM-4767 E CAP. C1161 QETMICM-4767 E CAP. C1163 QETMICM-4767 E CAP.	0.01µF 50V K • 220µF 10V M • 0.01µF 50V K • 100µF 10V M • 1200F 50V J • 47µF 16V M • 47µF 16V M • 47µF 16V M •
R1319 NR5A02J-152X R1320 NR5A02J-221X R1321 NR5A02J-102X R1323-24 NR5A02J-562X R1326-29 NR5A02J-152X R1330 NR5A02J-153X R1331 NR5A02J-271X R1332-33 NR5A02J-271X	MGR MGR MGR MGR MGR MGR MGR MGR	1.5kQ 1/10W J * 220Q 1/10W J * 1kQ 1/10W J * 5.6kQ 1/10W J * 1.5kQ 1/10W J * 10kQ 1/10W J * 220Q 1/10W J * 470Q 1/10W J *	R1617-18 MRSA02J-682X R1619-20 MRSA02J-223X R1659-60 QRN143J-2723X R1661 MRSA02J-561X R1663-64 MRSA02J-232X R1665 MRSA02J-104X R1666 MRSA02J-104X R1666 MRSA02J-104X	MG R MG R C R MG R MG R MG R MG R	6.8kΩ 1/10W J • 22kΩ 1/10W J • 2kΩ 1/10W J • 2kΩ 1/10W J • 56kΩ 1/10W J • 2kΩ 1/10W J • 100kΩ 1/10W J • 6.8kΩ 1/10W J • 100kΩ	R1766 HISA021-103X MG R R1767 HISA021-104X MG R R1768 HISA021-104X MG R R1770 HISA021-103X MG R R1771 HISA021-1393X MG R R1771 HISA021-1393X MG R R1772-74 HISA021-103X MG R R1775-76 HISA021-103X MG R R1777 HISA021-233X MG R	10kΩ 1/10w J * 100kΩ 1/10w J * 82kΩ 1/10w J * 10kΩ 1/10w J * 10kΩ 1/10w J * 10kΩ 1/10w J * 10kΩ 1/10w J * 22kΩ 1/10w J *	C1171 NDC21HJ-221X C CAP. C1172 NDC21HJ-560X C CAP. C1173 NDC21HJ-560X C CAP. C1174 NDC21HJ-121X C CAP. C1194 NDC21HJ-121X C CAP. C1193 NG221HK-103X C CAP. C1201 QETMICR-2277 E CAP. C1201 QETMICR-2277 E CAP. C1202 NG221HK-102X C CAP.	220pF 50V J = 55pF 50V J = 220pF 50V J = 120pF 50V J = 220pF 16V M = 220pF 16V M = 1000pF 50V K = 1000pF 50V K = 1000pF 50V K = 1000pF 50V K = 1000pF 50V M = 10000pF 50V M = 10000pF 50V M = 10000pF 50V M = 10000pF 50V M = 100000pF 50V M = 100000pF 50V M = 10000000000000000000000000000000000
R1334-35 NRSA02J-152X R1336 NRSA02J-101X R1337 NRSA02J-103X R1338-40 NRSA02J-103X R1341 NRSA02J-103X R1342 NRSA02J-103X R1343-44 NRSA02J-103X R1345-46 NRSA02J-103X	MG R MG R MG R MG R MG R MG R MG R	1.5kΩ 1/10W J * 100Ω 1/10W J * 10kΩ 1/10W J * 10kΩ 1/10W J * 18kΩ 1/10W J * 82kΩ 1/10W J * 82kΩ 1/10W J * 10kΩ 1/10W J *	R1668 NRSA02J-0ROX R1669 NRSA02J-473X R1670 NRSA02J-0ROX R1671 NRSA02J-773X R1672 NRSA02J-122X R1673 NRSA02J-103X R1674 NRSA02J-563X R1675 NRSA02J-103X	NG R NG R NG R NG R NG R NG R NG R	0.00 1/10W J • 47KΩ 1/10W J • 0.00 1/10W J • 0.00 1/10W J • 1.7KΩ 1/10W J • 1.7KΩ 1/10W J • 1.6KΩ 1/10W 1/10W J • 1.6KΩ 1/10W 1/	R1778 NRSA021-103X MG R R1779 NRSA021-333X MG R R1780 NRSA021-104X MG R R1791 NRSA021-103X MG R R1791 NRSA021-103X MG R R1793 NRSA021-103X MG R R1794 NRSA021-152X MG R R1795 NRSA021-152X MG R R1796 NRSA021-103X MG R	10kΩ 1/10w J * 33kΩ 1/10w J * 100kΩ 1/10w J * 10kΩ 1/10w J * 1kΩ 1/10w J * 1.5kΩ 1/10w J * 1kΩ 1/10w J *	C1203-04 GETAINH-105Z E CAP. C1205-06 GETAINH-105Z E CAP. C1207 GETAINH-2727 E CAP. C1211 MG21MK-102X C CAP. C1212-13 GETAINH-105Z E CAP. C1214-15 GETAINH-105Z E CAP. C1216-17 GETAINH-105Z E CAP. C1216-19 GETAICH-476Z E CAP.	1µF SOV M = 10µF SOV M = 220µF 16V M = 1000pF SOV K = 10µF SOV M = 10µF SOV M = 47µF 16V M = 47µ
R1347 HR5A02J-562X R1348 HR5A02J-471X R1349 HR5A02J-271X R1350 HR5A02J-271X R1351 HR5A02J-272X R1372 HR5A02J-272X R1381 HR5A02J-102X R1382 HR5A02J-102X	MG R MG R MG R MG R MG R MG R MG R	5.6kQ 1/10N J * 470Q 1/10N J * 1.5kQ 1/10N J * 2.70Q 1/10N J * 2.2kQ 1/10N J * 270kQ 1/10N J * 1kQ 1/10N J * 1kQ 1/10N J *	R1676 WRSA02J-273X R1677 WRSA02J-103X R1678 WRSA02J-103X R1679 WRSA02J-103X R1680 WRSA02J-273X R1682 WRSA02J-103X R1683 WRSA02J-62X R1684 WRSA02J-473X	NG R NG R NG R NG R NG R NG R NG R	27kΩ 1/10W J • 10kΩ 1/10W J • 56kΩ 1/10W J • 10kΩ 1/10W J • 10kΩ 1/10W J • 10kΩ 1/10W J • 5.6kΩ 1/10W J • 47kΩ 1/10W J •	R1797 MRSA021-102X MG R R1820 MRSA021-132X MG R R1880-82 MRSA021-102X MG R R1883 MRSA021-102X MG R R1884-86 MRSA021-103X MG R R1884-89 MRSA021-103X MG R R1890 MRSA021-273X MG R R1890 MRSA021-273X MG R	1kg 1/10w J * 3.3kG 1/10w J * 1kg 1/10w J * 47kG 1/10w J * 10kG 1/10w J * 10kG 1/10w J * 220g 1/10w J * 27kG 1/10w J *	C1220 QETMINH-105Z E CAP. C1221-22 QETMINH-105Z E CAP. C1221-24 QETMINH-105Z E CAP. C1231-33 QETMICH-476Z E CAP. C1234 MCB1NK-10X C CAP. C1304 MCB1NK-10X C CAP. C1301 QETMICH-227Z E CAP. C1302 MCB21NK-104X CHIP CAP. C1303 QETMICH-476Z E CAP.	1µF SOV M = 100µF 16V M = 14F SOV M = 47µF 16V M = 10000F SOV K = 220µF 16V M = 0.1µF SOV K = 47µF 16V M = 10000F SOV M = 10000F M = 10000F SOV M = 100000F SOV M = 10000F SOV M = 100000F SOV M = 10000F SOV M = 100000F SOV M = 10000F SOV M = 10000
R1383 AR5A02J-822X R1384 HR5A02J-683X R1385 HR5A02J-02X R1386 HR5A02J-102X R1387 HR5A02J-102X R1388 HR5A02J-732X R1389 HR5A02J-102X R1390 HR5A02J-102X	MG R MG R MG R MG R MG R MG R MG R	8.2kQ 1/10W J * 68kQ 1/10W J * 27kQ 1/10W J * 1kQ 1/10W J * 68kQ 1/10W J * 27kQ 1/10W J * 1kQ 1/10W J * 1kQ 1/10W J * 68kQ 1/10W J *	R1689-90 MRSA02J-103X R1691-92 MRSA02J-123X R1700 MRSA02J-103X R1700 MRSA02J-080X R1701 MRSA02J-104X R1703-06 MRSA02J-102X R1703-07 MRSA02J-102X	NG R NG R NG R NG R NG R NG R NG R	10kΩ 1/10W J + 12kΩ 1/10W J + 10kΩ 1/10W J + 10kΩ 1/10W J + 10kΩ 1/10W J + 10kΩ 1/10W J + 1kΩ 1/10W J + 10kΩ 1/	R1892-96 MRSA021-221X MG R R1897 QRG0291-220 OH R R1991 MRSA021-121X MG R R1990 MRSA021-121X MG R R1990 MRSA021-223X MG R R1990 MRSA021-223X MG R R1994 MRSA021-223X MG R R1995 MRSA021-102X MG R	2200 1/10W J * 22 Q 2W J * 1000 1/10W J * 22kQ 1/10W J * 22kQ 1/10W J * 22kQ 1/10W J * 1kQ 1/10W J * 1kQ 1/10W J *	C1304 QENCION-4762 BP E CAP. C1305 QETNIMI-2262 E CAP. C1306 QENIMI-228X C CAP. C1307-08 QENIMI-1057 BF E CAP. C1309 MCD1NI-390X C CAP. C1311-13 MCR21MK-104X CHIP CAP. C1314 MCR21MK-222X C CAP. C1315 MCR21CK-474X C CAP.	47µF 16V M = 22µF 50V M = 0.022µF 50V K = 1µF 50V K = 39pF 50V J = 0.1µF 50V K = 2200pF 50V K = 0.47µF 16V K =
R1391 NR5A02J-273X R1392 NR5A02J-101X R1395-97 NR5A02J-001X R1398 NR5A02J-01X R1401-02 NR5A02J-681X R1404 QRX016Z-222X R1404 QRX016Z-01X R1404 QRX016Z-01X	MG R MG R MG R MG R MG R MG R MG R	27kΩ 1/10W J * 1kΩ 1/10W J * 0.0Ω 1/10W J * 100Ω 1/10W J * 6.8kΩ 1/10W J * 2.kΩ 1/10W J * 1.0Ω 1W J * 220Ω 2W J	R1708 MRSA02J-102X R1709 MRSA02J-103X R1710 MRSA02J-103X R1711 MRSA02J-102X R1713-14 MRSA02J-102X R1718 MRSA02J-103X R1718 MRSA02J-103X R1719 MRSA02J-101X	NG R NG R NG R NG R NG R NG R NG R	1kΩ 1/10w J • 10kΩ 1/10w J • 820Ω 1/10w J • 1kΩ 1/10w J • 10kΩ 1/10w J • 10kΩ 1/10w J • 11kΩ 1/10w J • 11kΩ 1/10w J •	CAPACITOR C1001 MC321HK-104X CHIP CAP. C1002 QETM1HM-107Z E CAP. C1003 MC321HK-104X CHIP CAP. C1004 QETM1CH-107Z E CAP. C1005 MC321HK-104X CHIP CAP. C1006 QETM1CH-207Z E CAP. C1006 QETM1CH-207Z E CAP.	0.1µF 50V K * 100µF 50V M * 0.1µF 50V K * 100µF 16V M * 0.1µF 50V K * 220µF 16V M *	C1316 MCB2HK-104X CHIP CAP. C1317 ME321K-154X C CAP. C1318 ME31K-104X CHIP CAP. C1319 MCB2HK-333X C CAP. C1310 MCB2HK-104X CHIP CAP. C1320 MCB2HK-104X CHIP CAP. C1321-22 MCB2HK-104X CHIP CAP. C1321-32 MCB2HK-104X CHIP CAP. C1325-26 MCB2HK-104X CHIP CAP.	0.1µF 50V K = 0.15µF 25V K 0.1µF 50V K = 3300pF 50V K = 15pF 50V J = 15pF 50V J = 0.1µF 50V K = 0.1µ
R1406 MRSA02J-222X R1407 QXX01GJ-1R8 R1408 QXX01GJ-1R5 R1409-10 MRSA02J-103X R1461 MRSA02J-272X R1462 MRSA02J-272X R1463 MRSA02J-104X R1464 MRSA02J-123X	MG R MF R MF R MG R MG R MG R MG R	2.2kΩ 1/10W J * 1.8Ω 1W J * 1.5Ω 1W J * 1.5Ω 1W J * 1.5Ω 1W J * 1.6Ω 1/10W J * 2.7kΩ 1/10W J * 56kΩ 1/10W J * 100kΩ 1/10W J * 12kΩ 1/10W J *	R1720 NRSA02J-102X R1721-23 NRSA02J-472X R1724-26 NRSA02J-821X R1727 NRSA02J-1513X R1728 NRSA02J-153X R1729 NRSA02J-683X R1730 NRSA02J-223X R1731 NRSA02J-562X	NG R NG R NG R NG R NG R NG R NG R	1kΩ 1/10W J • 4.7kΩ 1/10W J • 820Ω 1/10W J • 820Ω 1/10W J • 15kΩ 1/10W J • 10kΩ 1/10W J • 68kΩ 1/10W J • 22kΩ 1/10W J • 5.6kΩ 1/10W J • 5.6kΩ 1/10W J • 4.5kΩ 1/10W J • 5.6kΩ 1/10W J • 6.6kΩ 1/10W 1/10W J • 6.6kΩ 1/10W	C1007 MCB21MK-222X C CAP. C1008 QETNIM-106Z E CAP. C1101-02 QETNICM-107Z E CAP. C1104 QETNICM-476Z E CAP. C1105 QENLIM-474Z BP E CAP. C1106 QETNIM-106Z E CAP. C1107 QETNIM-127Z E CAP. C1127 QETNIM-227Z E CAP. C1121-22 MCB21MK-103X C CAP.	2200pF 50V K * 10pF 50V H * 100pF 16V H * 47pF 16V H * 10pF 50V H * 120pF 50V H * 220pF 10V H * 0.01pF 50V K *	C1327 QETNICM-2277Z E CAP. C128-32 MEZIMK-104X CHIP CAP. C1341 QENCIHH-1057Z BF E CAP. C1342-44 NOC21HJ-220X C CAP. C1345 NOC21HJ-221X C CAP. C1362 NOC21HJ-330X C CAP. C1363-65 QETNICH-106Z E CAP. C1387-88 QETNICH-476Z E CAP.	220µF 16V M = 0.1µF 50V K = 1µF 50V M = 120pF 50V J = 120pF 50V J = 130pF 50V J = 47µF 16V M = 100 M =
R1501 NRSA02J-332X R1551 NRSA02J-100X R1552 NRSA02J-102X R1553 NRSA02J-683X R1554 NRSA02J-562X R1555 NRSA02J-363X R1556 NRSA02J-373X R1556 NRSA02J-373X R1557 NRSA02J-562X	MG R MG R MG R MG R MG R MG R MG R	3.3kΩ 1/10W J * 10Ω 1/10W J * 120kΩ 1/10W J * 68kΩ 1/10W J * 5.6kΩ 1/10W J * 33kΩ 1/10W J * 4.7kΩ 1/10W J * 5.6kΩ 1/10W J * 5.6kΩ 1/10W J * 5.6kΩ 1/10W J * 5.6kΩ 1/10W J *	R1732 NR5A02J-103X R1733 NR5A02J-222X R1734 NR5A02J-103X R1735-36 NR5A02J-163X R1738 NR5A02J-183X R1739 NR5A02J-313X R1740-42 NR5A02J-103X R1743 NR5A02J-222X	MG R MG R MG R MG R MG R MG R MG R	10kΩ 1/10W J = 2.2kΩ 1/10W J = 10kΩ 1/10W J = 10kΩ 1/10W J = 18kΩ 1/10W J = 18kΩ 1/10W J = 330Ω 1/10W J = 2.2kΩ 1/10W J = 2.2kΩ 1/10W J = 12.2kΩ 1/10W J = 12.2	C1123 QETN1CM-476Z E CAP. C1124-25 :NGB21MK-103X C CAP. C1128 QETN1CM-107Z E CAP. C1129 QETN1CM-476Z E CAP. C1130 NGB21MK-103X C CAP. C1131 QETN1CM-476Z E CAP. C1132 NGB21MK-103X C CAP. C1134 NGB21MK-103X C CAP. C1134 C CAP.	47µF 16V M + 0.01µF 50V K + 100µF 16V M + 47µF 16V M + 0.01µF 50V K + 47µF 16V M + 0.01µF 50V K	C1389-90 QETMOJH-228Z E CAP. C1392 MOC21HJ-880X C CAP. C1396-98 MC21HK-104X CHP CAP. C1403 QFLCAJ-104Z H CAP. C1404 MCR21HK-104X CHP CAP. C1405 MC21HJ-820X C CAP. C1406 QETMIVH-308 E CAP. C1406 QETMIVH-337Z E CAP.	2200µF 6.3V M * 680F 50V J * 0.1µF 50V K * 0.1µF 50V K * 0.1µF 50V K * 820F 50V J * 1000µF 33V M * 330µF 33V M *
R1558 NRSAOZJ-104X R1559 NRSAOZJ-154X R1560 NRSAOZJ-100X	MG R MG R MG R	100kΩ 1/10W J * 150kΩ 1/10W J * 10Ω 1/10W J *	R1744-46 NRSAO2J-103X R1747 NRSAO2J-102X R1748 NRSAO2J-103X	MG R MG R MG R	10kΩ 1/10w J * 1kΩ 1/10w J * 10kΩ 1/10w J *	C1135 MOC21HJ-181X C CAP. C1136-39 MC821M-103X C CAP. C1140 QETM1CM-476Z E CAP.	180pF 50V J * 0.01µF 50V K * 47µF 16V M *	C1409-10 QFV71HJ-474Z MF CAP. C1412 QFLCZAJ-104Z M CAP. C1417-18 QETW1CM-108Z E CAP.	0.47µF 50V J * 0.1µF 100V J * 1000µF 16V M =

Δ	Symbol No.	Part No.	Part Name	Des	cripti	on	Local
	CAPA	CITOR					
	C1419	NCB21HK-682X	C CAP.	6800pF	50V	K	1
	C1461	QETN1HM-226Z	E CAP.	22µF	50V	Ħ	
	C1551-52 C1553	NCB21CK-224X QETN1EM-476Z	C CAP. E CAP.	0.22µF	16V 25V	K	
	C1554-55	NCB21CK-224X	C CAP.	47μF 0.22μF	16V	K	•
	C1601-02	QDC31HJ-2ROZ	C CAP.	2.0pF	50V	ï	
	C1603-04	WCB21HK-103X	C CAP.	0.01µF	50V	K	
	C1605-06	QETN1HM-106Z	E CAP.	10µF	50V	Ħ	•
	C1607-08	NCF21EZ-104X	C CAP.	0.1µF	25V	Z	•
	C1609-12 C1613-14	QETN1HM-1052 NDC21HJ-471X	E CAP. C CAP.	1µF	50V 50V	H	1
	C1615-14	NCF21EZ-104X	C CAP. C CAP.	470pF 0.1μF	25V	2	- 7
	C1616-18	OETN1HM-106Z	E CAP.	10µF	50V	Ħ	-
	C1619	NCF21EZ-104X	C CAP.	0.1µF	25V	Z	
	C1620	OETN1HM-106Z	E CAP.	10µF	50V	Ħ	
	C1621-24	NCB21HK-102X	C CAP.	1000pF	50V	K	
	C1625-26	NDC21HJ-391X	C CAP.	390pF	50V	J	1
	C1627-28	MCB21HK-102X	C CAP.	1000pF	50V	K	
	C1629	MCB21HK-103X	C CAP.	0.01µF	50V	K	
	C1630	NCF21EZ-104X	C CAP.	0.1µF	25V	Z	
	C1631 C1632	QETW1CH-107Z MCF21EZ-104X	E CAP. C CAP.	100µF	16V 25V	Ħ Z	
	C1643	QETN1HM-105Z	E CAP.	0.1μF 1μF	50V	H	- :
	C1644-45	NDC21HJ-470X	C CAP.	47pF	50V	j	
	C1646	NDC21HJ-820X	C CAP.	82pF	50V	J	
	C1647	MCB21HK-472X	C CAP.	4700pF	50V	K	
	C1648	NDC21HJ-180X	C CAP.	18pF	50V	J	
	C1652-53	QETN1HM-105Z	E CAP.	1µF	50 V	Ħ	
	C1654	QETN1HM-107Z	E CAP.	100µF	50V	Ħ	
	C1655	QETN1HM-106Z	E CAP.	10µF	50V	H	
	C1656-57 C1658	NCF21HZ-224X QETM1HH-228	C CAP. E CAP.	0.22μF 2200μF	50V 50V	Z	
	C1661-62	NCF21HZ-224X	C CAP.	0.22µF	50V	2	
	C1663-64	QETH1VH-108	E CAP.	1000µF	35V	H	
	C1667	QETW1CH-227Z	E CAP.	220µF	16V	Ħ	
	C1668-69	QETN1HH-105Z	E CAP.	1µF	50V	Ħ	
	C1670	QETN1HM-106Z	E CAP.	10µF	50¥	Ħ	
	C1671	QETN1CH-476Z	E CAP.	47µF	16V	Ħ	
	C1672 C1673	NDC21HJ-100X QETN1HM-105Z	C CAP. E CAP.	10pF 1μF	50V 50V	J	
	C1674	NDC21HJ-100X	C CAP.	10pF	50V	j	
	C1675	OETN1HM-105Z	E CAP.	1μF	50V	Ħ	
	C1679	QETW1HM-106Z	E CAP.	10µF	50V	Ħ	
	C1680-81	NDC21HJ-221X	C CAP.	220pF	50V	j	*
	C1682	QETN1CH-227Z	E CAP.	220µF	16V	Ħ	
	C1701	NDC21HJ-471X	C CAP.	470pF	50V	J	
	C1702	NCB21HK-682X	C CAP.	6800pF	50¥	K	*
	C1703	NCB21HK-104X	CHIP CAP.	0.1µF	50¥	K	*
	C1704 C1705-06	QETN1AM-107Z MDC21HJ-2R0X	E CAP. C CAP.	100µF	10V 50V	Ħ	:
	C1707	MCB21HK-104X	CHIP CAP.	2.0pF 0.1µF	50V	K	:
	C1708	NCB21HK-333X	C CAP.	0.033µF	50V	K	
	C1709	MCB21HK-104X	CHIP CAP.	0.033µr	50V	K	
	C1710	QETN1EM-476Z	E CAP.	47µF	25V	Ħ	
	C1711	NCB21HK-104X	CHIP CAP.	0.1µF	50V	K	
	C1712	NCB21HK-333X	C CAP.	0.033µF	50V	K	
	C1713	NCB21HK-104X	CHIP CAP.	0.1μF	50V	K	
	C1714	QETN1HM-474Z	E CAP.	0.47μF	50V	M	
	C1715	QETN1CM-476Z	E CAP.	47µF	16V	M	*
	C1717	QETN1HH-106Z	E CAP.	10µF	50V	M	*
	C1718 C1719	NDC21HJ-471X NCF21CZ-105X	C CAP. C CAP.	470pF	50V	j	*
	C1719 C1720	NCB21HK-102X	C CAP.	1μF 1000pF	16V 50V	Z	*
	C1720	NCS21HJ-471X	C CAP.	470pF	50V	j	
	C1758	QETN1AM-227Z	E CAP.	220µF	10V	M	
	C1759	NCB21HK-104X	CHIP CAP.	0.1µF	50¥	K	
	C1760-61	NDC21HJ-150X	C CAP.	15pF	50V	ĵ	
	L1/6U-61	MUC.21HJ-150X	C CAP.	15pF	50V	J	

Symbol No.	Part No.	Part Name	Description	i Lo
CAP	ACITOR			
C1762	NCB21HK-104X	CHIP CAP.	0.1µF 50V P	
C1763	OETN1CM-476Z	E CAP.	47µF 16V P	
		CHIP CAP.	0.1µF 50V P	
C1764 C1766-68	NCB21HK-104X NCB21HK-104X	CHIP CAP.	0.1µF 50V F	•
(1774	NDC21HJ-151X	C CAP. CHIP CAP.		
C1780	NCB21HK-104X	CHIP CAP.		
C1781 C1782	NDC21HJ-101X NCB21HK-102X	C CAP. C CAP.	100pF 50V J 1000pF 50V F	
C1783	NDC21HJ-151X	C CAP.	150pF 50V J	
C1784	OETN1CH-227Z	E CAP.	220µF 16V	
C1901	OETN1CH-107Z	E CAP.	100µF 16V	
C1902	QETN1HM-106Z	E CAP.	10µF 50V	
TRAI	NSFORM	IER		
T1101	CE42697-001	LOWPASS FILTER LOWPASS FILTER		
T1111	CE42697-001	LOWPASS FILTER		
T1121	CE42697-001	LOWPASS FILTER		
COI		VIII AND		
L1001-02	QQL01BK-8R2Z	COIL	8.2µH	
L1003	QQL01BK-221Z	COIL	220µH	
L1004	QQL01BK-5R6Z	COIL	5.6µH	
L1101	QRM143J-OROX	CR	0.0Ω 1/4W J	
L1102-05	QQL03BJ-220Z	COIL	22µt	
L1111	00L03BJ-220Z	COIL	22µH	
L1121	QQL03BJ-330Z	COIL	33µt	
L1301	QQL01BK-390Z	COIL	39µH	
L1302	NQL024J-5R6X	COIL	5.6µH	
L1601-02	QRN143J-OROX	C R	0.0Ω 1/4W J	
1.1604	QQL01BJ-180Z	COIL	18µh	
11605	QQL018J-220Z	COIL	22µH	
L1701	QQL01BK-4R7Z	COIL	4.7µH	
L1702	QQL01BK-5R6Z	COIL	5.6µh	
L1752 L1753	QRN143J-OROX QQL01BK-4R7Z	C R COIL	0.0Ω 1/4W J 4.7μh	
DIO	DE		·	
D1201-11	MA3130/H/-X	ZENER DIODE		
D1214-15	MA3130/H/-X	ZENER DIODE		
D1402	BYD33D-T3	SI.DIODE		
D1403-04	MA3330/L/-X	ZENER DIODE		
D1461	MA111-X	SI.DIODE		
D1462	MA3220/H/-X	ZENER DIODE		
D1502	MA111-X	SI.DIODE		
D1504	MA111-X	SI.DIODE		
D1653-54	MA3330/L/-X	ZENER DIODE		
D1658	MA153A-X	SI.DIODE		
D1660	MA111-X	SI.DIODE		
D1661	MA153A-X	SI.DIODE		
D1664-65	MA111-X	SI.DIODE		
01666	MA3062/M/-X	ZENER DIODE		
D1667-68	MA3150/M/-X	ZENER DIODE		
D1701-02	MA111-X	SI.DIODE		
D1704 D1708	155244-T2 HA111-X	SI.DIODE SI.DIODE		
D1708	MA3068/M/-X			
		ZEWER DIODE		
D1710	MA111-X	SI.DIODE		
01712	MA111-X	SI.DIODE		
01751-53	MA111-X	SI.DIODE		
D1754 D1771-74	HA3062/H/-X HA3056/H/-X	ZENER DIODE Zener diode		
D1901	MA3130/H/-X	ZENER DIODE		

Symbol No.	Part No.	Part Name	Description Loca
TRA	VSISTOR	₹	
Q1101-04	2SC2412K/QR/-X	SI.TRANSISTOR	•
Q1111	2SC2412K/QR/-X	SI.TRANSISTOR	•
01112	25A1037AK/QR/-X	SI.TRANSISTOR	•
Q1113-14	2SC2412K/QR/-X	SI.TRANSISTOR	•
Q1121	2SC2412K/QR/-X	SI.TRANSISTOR	•
Q1122	2SA1037AK/QR/-X	SI.TRANSISTOR	•
Q1123-24	2SC2412K/QR/-X	SI.TRANSISTOR	•
Q1131-32	25C2412K/QR/-X	SI.TRANSISTOR	
Q1201-02	2SC2712/YG/-X	SI.TRANSISTOR	
Q1203	25C1815/YG/-T	SI.TRANSISTOR	
Q1204-05	25C2712/YG/-X	SI.TRANSISTOR	•
Q1206-07	DTC323TK-X	DIGI.TRANSISTOR	1
Q1208	2SA1162/YG/-X	SI.TRANSISTOR	
Q1209	25A1015/YG/-T	SI.TRANSISTOR	1
Q1211	25A1162/YG/-X	SI.TRANSISTOR	
Q1213-14	2SC2712/YG/-X	SI.TRANSISTOR	
Q1215-16	DTC323TK-X	DIGI.TRANSISTOR	
Q1217	2SA1162/YG/-X	SI.TRANSISTOR	
Q1220-21	2SC2712/YG/-X	SI.TRANSISTOR	
Q1301	2SA1162/YG/-X	SI.TRANSISTOR	
Q1303-04	25A1162/YG/-X	SI.TRANSISTOR	
Q1305	2SC2712/YG/-X	SI.TRANSISTOR	
Q1345	DTC124EKA-X	DIGI.TRANSISTOR	
Q1346	25C2712/YG/-X	SI.TRANSISTOR	
01351	DTC124EKA-X	DIGI.TRANSISTOR	
01381-83	25C2712/YG/-X	SI.TRANSISTOR	
Q1461-62	25C2712/YG/-X	SI.TRANSISTOR	
Q1601	DTC323TK-X	DIGI.TRANSISTOR	
01602	25A1162/YG/-X	SI.TRANSISTOR	
	25C2712/YG/-X	SI.TRANSISTOR	
Q1603 Q1655-56	DTC323TK-X	DIGI.TRANSISTOR	
Q1657	2SC2712/YG/-X	SI.TRANSISTOR	
01658-60	2SA1162/YG/-X	SI.TRANSISTOR	
		SI.TRANSISTOR	
Q1701-08	2SC2712/YG/-X 2SA1162/YG/-X	SI.TRANSISTOR	
01709	25A1162/YG/-X 25A1162/YG/-X	SI.TRANSISTOR	
Q1752 Q1753	DTC124EKA-X	DIGI.TRANSISTOR	
01901	25A1162/YG/-X	SI. TRANSISTOR	
Q1902	25C2712/YG/-X	SI.TRANSISTOR	
41301	250272271071	•••	
IC			
IC1101	TC9090AN	I.C.(DIGI-MOS) I.C.(MONO-ANA)	
IC1301	CXA1545AS	I.C. (MONO-ANA)	
IC1303	TDA9143/N3	I.C.(MONO-ANA)	
IC1304	TDA4665	I.C. (MONO-ANA)	
IC1305	LA7016	I.C. (MONO-ANA)	
IC1401	LA7841	I.C.(MONO-ANA) I.C.(MONO-ANA)	
IC1551 IC1601	LA6515 MSP3410D-PP-B4	I.C.(MONO-ANA) I.C.(DIGI-OTHER)	
IC1651 IC1652	TA8246H BA4558F-X	I.C.(HYBRID) I.C.(MONO-ANA)	
IC1701	M37280MK-1015P	I C	
IC1702	L78LROSE-MA	I.C. (MONO-ANA)	
IC1703	AT24C1632WZ4EP	I.C.	(SERVICE)
IC1754	SDA5275S	I.C. (MICRO-PROC)	
IC1755	MSM514400D-60ZS	I.C.(D-RAM)	
отн	ERS		
	CEMS009-064	I.C.SOCKET FFC CONNECTOR	
CN1002	CHC108N-25T-AE	FFC CONNECTOR	
CN1008	CHA401B-35P-J	HQF PLUG	
K1001	QRN143J-OROX	CR	0.0Ω 1/4W J
K1009	ORN143J-OROX	C R	0.0Ω 1/4W J
K1101	CE41433-001Z	BEADS CORE	
K1401	CE41433-0017	BEADS CORE	
K1701	CE41433-001Z	BEADS CORE	

A	Symbol No.	Part No.	Part Name	Description	Local
_	отні	ERS			
	LC1101	CE42142-2227	EMI FILTER		
	LC1601	CE42142-103Z	EMI FILTER		•
	TU1001	CEEK481-A03	TUNER		•
	W1001-02	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
	X1311	CE40749-001Z	CRYSTAL		1
	X1312	CE40668-001Z	CRYSTAL		
	X1601	CE42546-001Z	CRYSTAL		
	X1701	CST8.00MTW	CER.RESONATOR		•
	X1752	0AX0351-001Z	CRYSTAL		
	Y1301-06	MRSA02J-OROX	MG R	0.0Ω 1/10W J	
	Y1312-13	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
	Y1314	MRSA02J-682X	MG R	6.8kΩ 1/10W .	
	Y1315-17	NRSA02J-OROX	MG R	0.0Ω 1/10W .	1
	Y1324-26	NRSA02J-OROX	MG R	0.0Ω 1/10W .	, ,
	Y1328	NRSA02J-OROX	MG R	0.0Ω 1/10W .	, ,
	Y1401	NRSA02J-OROX	MG R	0.0Ω 1/10₩ .	
	Y1502-05	NRSA02J-OROX	MG R	0.0Ω 1/10W .	,
	Y1651-52	WRSA02J-OROX	MG R	0.0Ω 1/10W .	, ,
	Y1654	WRSA02j-OROX	MG R	0.0Ω 1/10W .	
	Y1701-03	NRSA02J-OROX	MG R	0.0Ω 1/10W .	
	Y1750-53	NRSA02J-OROX	MG R	0.0Ω 1/10W .) 1

POWER / DEF PW BOARD ASS'Y (SMD-2002A-U2)

Foca	on	cripti	Des	Part Name	Part No.	Symbol No.	A
					STOR	RESI	
	J	1/4W	2.7kΩ	CR	ORE141)-272Y	R2451	
	J	1/4W	1kΩ	C R	ORE141J-102Y	R2455	
,	j		47kΩ	C R	ORE141J-473Y	R2456	
	J	1/4W	10kΩ	C R	ORE141J-103Y	R2457	
	j	1/4W	27kΩ	C R	ORE141J-273Y	R2458	
	J	1/4W	2.7kΩ	CR	ORE141J-272Y	R2459	
	J		1kΩ	CR	ORE141J-102Y	R2461	
	j	2W	82 Ω	OM R	QRG029J-820	R2463	
	J	1/4W	10kΩ	C R	QRE141J-103Y	R2465	
	J	1/4¥	470Ω	CR	QRE141J-471Y	R2501	
	j		12kΩ	CR	QRE141J-123Y	R2502	
	J		1.5kΩ	CR	ORE121J-152Y	R2503	
	J	3₩	2.7kΩ	OM R	QRG039J-272	R2504-05	
	J		5.6Ω	C R	QRE121J-5R6Y	R2506	
	J		1.5kΩ	C R	QRE141J-152Y	R2507	
	J	1/4W	. 56kΩ	C R	QRE141J-563Y	R2509	
	J	1/4W	33kΩ	CR	QRE141J-333Y	R2510	
	J	1/4W	1kΩ	C R	QRE141J-102Y	R2511	
	J	1/2W	470Ω	C R	QRE121J-471Y	R2522	
	J		4.7Ω	FR	ORZ9017-4R7	R2551	Δ
	j	1₩	1 Ω	FUSI.RESISTOR	ORZ9021-1R0	R2552	Δ
	J	1₩	1 Ω	FUSI.RESISTOR	ORZ9021-1R0	R2553	Δ
	J		1.8kΩ	CR	ORE141J-182Y	R2554	
	j	1/4W	8.2kΩ	C R	QRE141J-822Y	R2555	
	J		2.7kΩ	CR	QRE121J-272Y	R2557	
	K		10kΩ	COMP.R	ORZ0056-103Z	R2561	
	K		4.7Ω	UNF R	QRF154K-4R7	R2581	
	J	1/4W	680Ω	CR	QRE141J-681Y	R2582	
	J	1/2W	6.8kΩ	CR	QRE121J-682Y	R2583	
	j	1/4₩	18kΩ	CR	QRE141J-183Y	R2584	
	J	1/4W	2.2kΩ	C R	ORE141J-222Y	R2585	

No. 51551

-	Symbol No.	Part No.	Part Name	Description	Local
	RES	ISTOR			
	R2586	ORA14CF-7501Y	MF R	7.5kΩ 1/4W F	
	R2587	QRA14CF-2201Y	MF R	2.2kΩ 1/4W F	
	R2588	QRE141J-103Y	C R	10kΩ 1/4₩ J	
	R2901	QRF104K-3R9	UNF R	3.9Ω 10W K	
	R2902	ORE121J-331Y	C R	330Q 1/2W J	
			C R	470kΩ 1/2W J	
	R2903-04	QRE121J-474Y	OM R	82kΩ 3W J	
	R2905	QRL039J-823			•
	R2906	QRG0391-683	OM R	68kΩ 3W J	
	R2907	QRZ9017-2R2	FUSI.RESISTOR	2.2 Ω 1/4W J	*
	R2908	QRE121J-152Y	C R	1.5kΩ 1/2W J	*
	R2909	QRT0291-R39	MF R	0.39Ω 2W J	
	R2910	ORM059J-R22	MP R	0.22Ω 5W J	*
	R2911	QRE121J-681Y	C R	680Ω 1/2W J	
	R2912	ORE121J-332Y	CR	3.3kΩ 1/2W J	
	R2913	QRL039J-823	OM R	82kΩ 3W J	
	R2923	QRE121J-102Y	CR	1kΩ 1/2W J	
	R2951	QRF074J-102	UNF R	1kΩ 7W J 10kΩ 2W J	*
	R2952	QRG029J-103	OM R		
	R2953	QRG029J-183	DM R	18kΩ 2₩ J	*
	R2954	QRE141J-330Y	C R	33Ω 1/4W J	*
	R2955	QRE141J-681Y	CR	680Ω 1/4W J	*
	R2956	QRX029J-R47	MF R	0.47Ω 2W J	*
	R2957	QRG029J-100	DM R	10 Ω 2W J	
	R2960	QRE141J-153Y	CR	15kΩ 1/4W J	*
	R2961	QRE141J-182Y	C R	1.8kQ 1/4W J	
	R2962	QRE141J-153Y	CR	15kΩ 1/4W J	
			CR	6.8kQ 1/4W J	
	R2963	QRE141J-682Y			:
	R2968	QRE141J-103Y	C R	10kΩ 1/4W J 6.8kΩ 1/4W J	
	R2969	QRE141J-682Y	C R		
	R2970	QRE141J-822Y	C R	8.2kΩ 1/4W J	*
	R2971	QRE141J-682Y	CR	6.8kΩ 1/4W J	
	R2983	QRE141J-122Y	C R	1.2kΩ 1/4W J	*
	R2984	ORE141J-104Y	C R	100kΩ 1/4W J	
	R2985-86	QRE141J-103Y	ČŘ	10kΩ 1/4W J	
	R2987	ORE121J-680Y	CR	68Ω 1/2W J	
١	R2987 R2991	QRZ0057-825	CR	8.2MQ .1W J	
-					
	CAP				
	C2451	QCS31HJ-470Z	C CAP.	47pF 50V J	
	C2451		MF CAP.	0.1µF 50V J	
	C2451 C2452	QCS31HJ-470Z QFV71HJ-104Z	MF CAP.	0.1µF 50V J	
	C2451 C2452 C2453	QCS31HJ-470Z QFV71HJ-104Z QETN1EM-476Z	MF CAP. E CAP.	0.1µF 50V J 47µF 25V M	
	C2451 C2452 C2453 C2455	QCS31HJ-470Z QFV71HJ-104Z QETN1EM-476Z QFLC1HJ-102Z	MF CAP. E CAP. M CAP. M CAP.	0.1μF 50V J 47μF 25V M 1000pF 50V J	*
	C2451 C2452 C2453 C2455 C2456	QCS31HJ-470Z QFV71HJ-104Z QETN1EM-476Z QFLC1HJ-102Z QFN72DJ-122Z	MF CAP. E CAP. M CAP. M CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200pF 200V J	*
	C2451 C2452 C2453 C2455 C2456 C2457	QCS31HJ-470Z QFV71HJ-104Z QETN1EM-476Z QFLC1HJ-102Z QFM72DJ-122Z QFM72DJ-152Z	MF CAP. E CAP. M CAP. M CAP. M CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200pF 200V J 1500pF 200V J	:
	C2451 C2452 C2453 C2455 C2456 C2457 C2458	QCS31HJ-470Z QFV71HJ-104Z QETN1EM-476Z QFLC1HJ-102Z QFN72DJ-122Z QFN72DJ-152Z QEZ0471-226Z	HF CAP. E CAP. H CAP. H CAP. H CAP. E CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200pF 200V J 1500pF 200V J 4.7µF 50V M	*
	C2451 C2452 C2453 C2455 C2456 C2457 C2458 C2461	QCS31HJ-470Z QFV71HJ-104Z QFTNEM-476Z QFLC1HJ-102Z QFM72DJ-122Z QFM72DJ-152Z QEZ0471-226Z QFLC1HJ-182Z	MF CAP. E CAP. H CAP. H CAP. H CAP. E CAP. H CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200pF 200V J 1500pF 200V J 4.7µF 50V M 1800pF 50V J	•
	C2451 C2452 C2453 C2455 C2456 C2457 C2458 C2461 C2501	QCS31HJ-470Z QFV71HJ-104Z QETN1EM-476Z QFLC1HJ-102Z QFM72DJ-152Z QFM72DJ-152Z QEZ0471-226Z QFLC1HJ-182Z QCB32HK-331Z	MF CAP. E CAP. M CAP. M CAP. M CAP. M CAP. CAP. CAP. CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200pF 200V J 1500pF 200V J 4.7µF 50V M 1800pF 50V J	•
	C2451 C2452 C2453 C2455 C2456 C2457 C2458 C2461 C2501 C2502	QCS31HJ-470Z QFV71HJ-104Z QETN1EM-476Z QFLC1HJ-102Z QFM72DJ-152Z QFM72DJ-152Z QEZ0471-226Z QFLC1HJ-182Z QCB32HK-331Z QFM72DK-103	MF CAP. E CAP. H CAP. H CAP. CAP. H CAP. CAP. CAP. H CAP. H CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200pF 200V J 1500pF 200V J 4.7µF 50V M 1800pF 50V K 0.01µF 200V K	•
	C2451 C2452 C2453 C2455 C2456 C2457 C2458 C2461 C2501 C2502 C2503	QCS31HJ-470Z QFV71HJ-104Z QETN1EH-476Z QFLC1HJ-102Z QFM72DJ-12ZZ QFM72DJ-12ZZ QFZQM71-226Z QFZQM71-226Z QCS2HK-331Z QFM72DK-103 QFM72DK-103 QFM72DK-103	NF CAP. E CAP. N CAP. N CAP. N CAP. CAP. CAP. CAP. N CAP. H CAP. H CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200pF 200V J 1500pF 200V J 4.7µF 50V M 1800pF 50V J 330pF 500V K 0.01µF 200V K 0.22µF 50V J	*
_	C2451 C2452 C2453 C2455 C2456 C2457 C2458 C2461 C2501 C2502	QCS31HJ-470Z QFV71HJ-104Z QETN1EM-476Z QFLC1HJ-102Z QFM72DJ-152Z QFM72DJ-152Z QEZ0471-226Z QFLC1HJ-182Z QCB32HK-331Z QFM72DK-103	NF CAP. E CAP. N CAP. N CAP. E CAP. C CAP. C CAP. N CAP. H CAP. N CAP. N CAP. N CAP. N CAP. N CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200pF 200V J 1500pF 200V J 4.7µF 50V M 1800pF 50V J 330pF 500V K 0.01µF 200V K 0.22µF 50V J 1100pF1.8kWH ±3%	*
	C2451 C2452 C2453 C2455 C2456 C2457 C2458 C2461 C2501 C2502 C2503	QCS31HJ-470Z QFV71HJ-104Z QETN1EH-476Z QFLC1HJ-102Z QFM72DJ-12ZZ QFM72DJ-12ZZ QFZQM71-226Z QFZQM71-226Z QCS2HK-331Z QFM72DK-103 QFM72DK-103 QFM72DK-103	NF CAP. E CAP. N CAP. N CAP. N CAP. CAP. CAP. CAP. N CAP. H CAP. H CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200pF 200V J 1500pF 200V J 4.7µF 50V M 1800pF 50V J 330pF 500V K 0.01µF 200V K 0.22µF 50V J	*
	C2451 C2452 C2453 C2455 C2456 C2457 C2458 C2461 C2501 C2502 C2503 C2521 C2522	QC531HJ-470Z QF71HJ-104Z QF71EH-476Z QF1CHJ-102Z QF1CHJ-102Z QF1ZDJ-121Z QF1ZDJ-121Z QF1ZDJ-125Z QC632HK-331Z QF72DK-103 QF71HJ-224Z QF201Z-11Z QF701Z-11Z QF701Z-11Z	MF CAP. E CAP. N CAP. N CAP. N CAP. E CAP. C CAP. N CAP. H CAP. H CAP. H CAP. H CAP. H CAP.	0.1µF 50V J 47µF 52V M 1000pF 50V J 1200pF 200V J 1200pF 200V J 4.7µF 50V J 1800pF 50V J 330pF 500V K 0.21µF 50V J 1100pF1.8kWH ±3% 0.0122pF1.4kWH±2.5% 0.0122pF1.4kWH±2.5%	***************************************
Ž	C2451 C2452 C2453 C2455 C2456 C2456 C2457 C2458 C2461 C2501 C2502 C2503 C2521 C2522 C2523	QC531HJ-470Z QF71HJ-104Z QFTHEH-476Z QFTHEH-476Z QFH72DJ-122Z QFH72DJ-122Z QFH72DJ-122Z QFG2MT-126Z QFCC1HJ-182Z QC832HK-331Z QFH72DK-103 QF72TM-224Z QF72TM-224Z QF72TM-224Z QF72TM-224Z QF72TM-234Z QF72TM-234Z QF72TM-234Z	NF CAP. E CAP. N CAP. N CAP. CAP. CAP. CAP. CAP. N CAP. H CAP. H CAP. HP CAP. NPP CAP. NPP CAP.	0.1µF 50V J 47µF 52V M 1000pF 50V J 1200pF 200V J 1200pF 200V J 4.7µF 50V J 1800pF 50V J 330pF 500V K 0.21µF 50V J 1100pF1.8kWH ±3% 0.0122pF1.4kWH±2.5% 0.0122pF1.4kWH±2.5%	***************************************
Ž	C2451 C2452 C2453 C2455 C2456 C2457 C2458 C2461 C2501 C2502 C2503 C2521 C2522	QC531HJ-470Z QF71HJ-104Z QF71EH-476Z QF1CHJ-102Z QF1CHJ-102Z QF1ZDJ-121Z QF1ZDJ-121Z QF1ZDJ-125Z QC632HK-331Z QF72DK-103 QF71HJ-224Z QF201Z-11Z QF701Z-11Z QF701Z-11Z	MF CAP. E CAP. N CAP. N CAP. N CAP. E CAP. C CAP. N CAP. H CAP. H CAP. H CAP. H CAP. H CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200pF 20V J 1500pF 20V J 4.7µF 50V J 1800pF 50V J 330pF 50V V 0.01µF 50V J 1100pF 50V J 1100pF 50V J 100pF 50V J	
Ž	C2451 C2452 C2453 C2455 C2456 C2457 C2458 C2461 C2501 C2502 C2503 C2511 C2522 C2523 C2524 C2525	QC531HJ-470Z QFY71HJ-104Z QFY71HJ-104Z QFTCHJ-102Z QFR72DJ-121Z QFR72DJ-152Z QFZ04TJ-226Z QFLC1HJ-182Z QC832HK-331Z QFY71HJ-224Z QFR72DK-103 QFY71HJ-224Z QFR72DK-393 QFY71HJ-224Z QFR72DK-393 QFF72CJ-273 QFF72CJ-273 QFF72CJ-273 QFF72CJ-273 QFF72CJ-273 QFF72CJ-273 QFF72CJ-273	NE CAP. E CAP. N CAP. N CAP. N CAP. E CAP. N CAP. C CAP. N CAP. NF CAP. NP CAP.	0.1µF 50V J 47µF 50V J 100pF 50V J 120pF 20V J 120pF 20V J 4.7µF 50V M 1800pF 50V J 330pF 50V J 0.01µF 20V V 0.21µF 50V J 1100pF 18VV ±3% 0.012pF 1.4VV ±2% 0.039µF 20V V 0.021µF 40V J 1.2µF 20V J	
Ž	C2451 C2452 C2453 C2455 C2455 C2456 C2456 C2457 C2458 C2461 C2501 C2502 C2503 C2521 C2522 C2523 C2524 C2525 C2525	QC531HJ-470Z QPV7HJ-104Z QETMEH-476Z QETMEH-476Z QFM2DJ-122Z QFM2DJ-152Z QE704T-252Z QC704T-252Z QC704T-226Z QFM2DJ-18ZZ QFM2DJ-18ZZ QFM2DJ-18ZZ QFM2DJ-18ZZ QFM2DJ-12Z QFM2DJ-1	HE CAP. E CAP. H CAP. H CAP. H CAP. H CAP. E CAP. H CAP. HP CAP. HP CAP.	0.1µF 50V M 1000pF 50V J 1200pF 200V J 1200pF 200V J 4.7µF 50V M 1800pF 50V J 330pF 500V K 0.01µF 50V J 1100pF1.8kvW ±38 0.012pF 140kv M 0.027µF 400V J 1.2µF 250V J 1.2µF 250V J 0.53µF 250V J 0.53µF 250V J	***************************************
Ž	C2451 C2452 C2453 C2455 C2456 C2457 C2456 C2457 C2461 C2502 C2503 C2503 C2503 C2521 C2523 C2523 C2525	QC531HJ-470Z QPY71HJ-104Z QPY71HJ-104Z QPTC1HJ-102Z QPR72DJ-121Z QPR72DJ-151Z QPZ04T1-226Z QPZ04T1-226Z QPZ04T1-226Z QPZ1HJ-224Z QPR72DK-303 QPY71HJ-224Z QPR72DK-303 QPY71HJ-224Z QPR72DK-393 QPZ0194-334 QPS2HK-561Z	NF CAP. E CAP. N CAP. N CAP. N CAP. E CAP. N CAP. N CAP. N CAP. N CAP. NP CAP.	0.1µF 50V J 47µF 52V M 1000pF 50V J 1200pF 200V J 1200pF 200V J 4.7µF 50V M 1800pF 50V J 330pF 500V K 0.01µF 200V K 0.12µF 18VW ±3% 0.01µF 18VW ±3% 0.0127µF 14VW±2.5% 0.027µF 400V J 1.2µF 250V J 0.53µF 250V J 0.53µF 250V J	
Ž	C2451 C2452 C2453 C2455 C2456 C2456 C2456 C2457 C2458 C2461 C2501 C2502 C2503 C2503 C2503 C2504 C2505 C2505 C2505 C2505 C2505 C2505 C2505 C2506 C2505 C2506	QC531HJ-470Z QPV7HJ-104Z QFTMEH-476Z QFC1EH-476Z QFC1EH-210ZZ QFF7ZDJ-122Z QFF7ZDJ-152Z QFC04T-225Z QFC04T-225Z QFC01H-18ZZ QF	HE CAP. E CAP. H CAP. H CAP. H CAP. H CAP. C CAP. H CAP. H CAP. H CAP. H CAP. HP CAP. E CAP. HP CAP. E CAP.	0.1µF 50V M 1000pF 50V J 1200pF 200V J 1500pF 200V J 4.1µF 50V J 330pF 500V K 0.01µF 200V K 0.01µF 200V K 0.02µF 50V J 1100pF1.8kVH ±2.5 0.012pF1.4kVH±2.5 0.012pF1.4kVH±2.5 0.052µF 200V K 0.027µF 30V J 0.53µF 250V J 560pF 500V K	
Ž	C2451 C2452 C2453 C2455 C2456 C2456 C2457 C2458 C2461 C2501 C2502 C2503 C2521 C2523 C2523 C2524 C2525 C2525 C2525 C2525 C2525 C2526 C2529 C2521 C2521 C2525	QCS31HJ-470Z QPY7JH-104Z QPY7JH-104Z QPTCHJ-102Z QPR7ZD-121Z QPR7ZD-151Z QPZ04T-125Z QPZ04	NF CAP. E CAP. N CAP. NP CAP. NP CAP. NP CAP. NP CAP. NP CAP. NP CAP. PCAP. NP CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200bF 200V J 1200bF 200V J 4.7µF 50V J 1800opF 50V J 330pF 500V K 0.01µF 200V K 0.21µF 50V J 1100pF1.8kVH ±3% 0.012µF1.4kVH±2.% 0.027µF 400V J 1.2µF 200V J 0.53µF 500V J 550pF 500V K 220µF 160V M 1500pF 500V K	
1	C2451 C2452 C2453 C2455 C2456 C2456 C2457 C2458 C2461 C2501 C2503 C2521 C2523 C2524 C2525 C2526 C2525 C2526 C2526 C2529 C2522 C2522 C2522 C2522 C2522 C2523	QC531HJ-470Z QFY71HJ-104Z QFTHEH-476Z QFTHEH-476Z QFTHEH-476Z QFTZDJ-121Z QFZDJ-152Z QFZDJ-152Z QFZDJ-152Z QFZDJ-152Z QFZDJ-152Z QFZDJ-152Z QFZDJ-152Z QFZDJ-122Z QFZ	NE CAP. E CAP. N CAP. N CAP. N CAP. C CAP. N CAP. N CAP. N CAP. N CAP. N CAP. NP CAP. NP CAP. NP CAP. NP CAP. NP CAP. NP CAP. C CAP. C CAP. C CAP. E CAP. C CAP. C CAP.	0.1µF 50V M 1000pF 50V J 1200pF 200V J 1200pF 200V J 1300pF 200V M 1800pF 50V J 330pF 500V K 0.01µF 200V K 0.02µF 50V J 1100pF 38VH ±2% 0.022pF 400V K 0.022µF 50V J 1.2µF 50V J 1.2µF 50V J 1.2µF 50V J 1.2µF 50V J 2.2µF 50V M 0.022µF 400V K 0.022µF 400V K 0.022µF 400V K 0.022µF 400V M 1.00µF 500V K 1500pF 500V M	
Ž	C2451 C2452 C2453 C2455 C2456 C2456 C2457 C2458 C2461 C2501 C2502 C2503 C2512 C2523 C2523 C2524 C2525	QCS31HJ-470Z QPV7HJ-104Z QFTMEH-476Z QFTMEH-476Z QFTMEH-476Z QFM72DJ-121Z QFM72DJ-152Z QFW72DJ-152Z QFW72DJ-152Z QFW72HJ-152Z QFW72HJ-224Z QFW72H	HE CAP. E CAP. H CAP. C CAP. C CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	0.1µF 50V M 1000pF 50V J 1200pF 200V J 1500pF 200V J 4.7µF 50V J 1800pF 50V J 330pF 500V K 0.01µF 200V K 0.01µF 50V J 1100pF 1.8kVH ±3% 0.0122pF 1.8kVH ±3% 0.027µF 400V J 1.2µF 200V K 0.027µF 400V J 1.2µF 250V J 550pF 500V K 220µF 150V M 1200µF 500V K 1000µF 150V M 1500pF 500V K 1500pF 500V K	
<u> </u>	C2451 C2452 C2453 C2455 C2455 C2455 C2456 C2457 C2458 C2461 C2501 C2502 C2503 C2503 C2503 C2504 C2502 C2503 C2504 C2503 C2504 C2505 C2505 C2506 C2506 C2506 C2506 C2507 C2508	QC531HJ-470Z QPY71HJ-104Z QPY71HJ-104Z QPTC1HJ-102Z QPR72DJ-121Z QPR72DJ-151Z QE20471-226Z QPC1HJ-182Z QE32HK-331Z QP71HJ-224Z QPR72DK-103 QPY71HJ-224Z QPR72DK-193 QP72HJ-273 QP70194-134 QP72HZ-273 QP70194-134	NF CAP. E CAP. N CAP. NP CAP. NP CAP. NP CAP. NP CAP. NP CAP. C CAP. C CAP. C CAP. C CAP. C CAP. E CAP.	0.1µF 50V J 100pF 50V J 120pF 20W J 150pp 20W J 4.7µF 50V H 1800pF 50V J 330pF 500V K 0.01µF 20W J 1100pF 18WH ±3% 0.012pF 1.4WH±2.5% 0.027µF 40W J 1.2µF 50V J 0.53µF 20W K 20µF 16W H 150pF 50W J 1.5µF 16W J 150pF 50W J 150pF 50W L 15	
Ž	C2451 C2452 C2453 C2455 C2456 C2456 C2457 C2458 C2461 C2501 C2502 C2503 C2512 C2523 C2523 C2524 C2525	QCS31HJ-470Z QPV7HJ-104Z QFTMEH-476Z QFTMEH-476Z QFTMEH-476Z QFM72DJ-121Z QFM72DJ-152Z QFW72DJ-152Z QFW72DJ-152Z QFW72HJ-152Z QFW72HJ-224Z QFW72H	HE CAP. E CAP. H CAP. C CAP. C CAP. C CAP. C CAP. E CAP. C CAP. C CAP. C CAP. C CAP. C CAP.	0.1µF 50V M 1000pF 50V J 1200pF 200V J 1500pF 200V J 4.7µF 50V J 1800pF 50V J 330pF 500V K 0.01µF 200V K 0.01µF 50V J 1100pF 1.8kVH ±3% 0.0122pF 1.8kVH ±3% 0.027µF 400V J 1.2µF 200V K 0.027µF 400V J 1.2µF 250V J 550pF 500V K 220µF 150V M 1200µF 500V K 1000µF 150V M 1500pF 500V K 1500pF 500V K	
Δ	C2451 C2452 C2453 C2455 C2455 C2456 C2457 C2458 C2461 C2501 C2502 C2503 C2503 C2524 C2524 C2525 C2524 C2525 C2524 C2525 C2526 C2529 C2521 C2525 C2526 C2525 C2526 C2527 C2527 C2528 C2553 C2553 C2553 C2553 C2553 C2553 C2553 C2553 C2553	QC531HJ-470Z QPY7JHJ-104Z QPY7JHJ-104Z QPTCBJ-12Z QPTZDJ-12Z QPTZDJ-15ZZ QPZ04T1-226Z QPZ04T1-226Z QPZ04T1-226Z QPZ04T1-224Z QPZ04T1-12ZQ QPZ04T1-12ZQ QPZ04T2-12	NF CAP. E CAP. N CAP. N CAP. N CAP. N CAP. C CAP. N CAP. NP CAP. NP CAP. NP CAP. NP CAP. NP CAP. C CAP. C CAP. C CAP. E CAP. C CAP. E CAP.	0.1µF 50V M 1000pF 50V J 1200pF 200V J 1200pF 200V J 1500pF 200V J 4.7µF 50V M 1800pF 50V J 330pF 500V K 0.01µF 200V M 0.22µF 50V M 1100pF 180VH ±3% 0.30pF 200V K 0.027µF 400V J 1.2µF 200V M 200µF 180V M 1500pF 500V K 100µF 18V M 1500pF 500V K 100µF 18V M 1500pF 500V K 100µF 18V M 130µF 50V M 100µF 18V M 130µF 50V M	
Ž	C2451 C2452 C2453 C2455 C2456 C2456 C2457 C2458 C2457 C2458 C2501 C2502 C2503 C2521 C2522 C2523 C2524 C2523 C2524 C2525 C2555	QC531HJ-470Z QPV7HJ-104Z QFTMEH-476Z QFTMEH-476Z QFTMEH-476Z QFTZDJ-122Z QFTZDJ-152Z QC702H-152Z QC702H-152Z QFTZDH-18ZZ QFTZDK-103 QFV71HJ-224Z QFZ01Z-11Z QFZ01Z-11Z QFZ01Z-11Z QFZ01Z-12Z QFZ01Z QFZ01Z-12Z QFZ01Z-12Z QFZ01Z-12Z QFZ01Z-12Z QF	HE CAP. E CAP. H CAP. H CAP. H CAP. H CAP. C CAP. H CAP. C CAP. E CAP. C CAP. E CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200pF 200V J 1200pF 200V J 4.7µF 50V J 18000pF 50V J 330pF 500V K 0.21µF 200V K 0.22µF 100V J 1100pF 18VW ±3% 0.0127µF 400V J 1.2µF 250V J 0.53µF 250V J 0.53µF 250V K 220µF 160V M 1500pF 500V K 1000µF 16V M 1500pF 500V K 1000µF 500V K 1000µF 16V M 1500pF 500V K 1000µF 500V K	
Ž	C2451 C2452 C2453 C2455 C2455 C2455 C2456 C2457 C2458 C2461 C2502 C2503 C2503 C2503 C2503 C2504 C2503 C2503 C2504 C2505 C2503 C2504 C2505	QC531HJ-470Z QPY7JHJ-104Z QPY7JHJ-104Z QPT2DJ-121Z QPT2DJ-121Z QPT2DJ-151Z QPZ04T1-226Z QPT2DK-103 QPY7JHJ-224Z QPT2DK-103 QPT7JHJ-224Z QPT2DK-103 QPT7JHJ-224Z QPT2DK-103 QPT2D	NF CAP. E CAP. H CAP. E CAP.	0.1µF 50V J 47µF 25V M 1000pF 50V J 1200pF 200V J 1200pF 200V J 4.7µF 50V J 18000pF 50V J 330pF 500V K 0.21µF 200V K 0.22µF 100V J 1100pF 18VW ±3% 0.0127µF 400V J 1.2µF 250V J 0.53µF 250V J 0.53µF 250V K 220µF 160V M 1500pF 500V K 1000µF 16V M 1500pF 500V K 1000µF 500V K 1000µF 16V M 1500pF 500V K 1000µF 500V K	
Ž	C2451 C2452 C2453 C2455 C2456 C2456 C2457 C2458 C2457 C2458 C2501 C2502 C2503 C2521 C2522 C2523 C2524 C2523 C2524 C2525 C2555	QC531HJ-470Z QPV7HJ-104Z QFTMEH-476Z QFTMEH-476Z QFTMEH-476Z QFTZDJ-122Z QFTZDJ-152Z QC702H-152Z QC702H-152Z QFTZDH-18ZZ QFTZDK-103 QFV71HJ-224Z QFZ01Z-11Z QFZ01Z-11Z QFZ01Z-11Z QFZ01Z-12Z QFZ01Z QFZ01Z-12Z QFZ01Z-12Z QFZ01Z-12Z QFZ01Z-12Z QF	HE CAP. E CAP. H CAP. H CAP. H CAP. H CAP. C CAP. H CAP. C CAP. E CAP. C CAP. E CAP.	0.1µF 50V M 1000pF 50V J 1200bF 200V J 1200bF 200V J 1500pF 200V J 4.7µF 50V J 18000pF 50V J 330pF 500V K 0.01µF 200V K 0.21µF 50V J 1100pF 180VH ±3% 0.012µF 180V ±3% 0.012µF 400V J 1.2µF 200V K 0.039µF 200V K 0.039µF 200V K 1.2µF 180V J 1.50pF 500V K 22µµF 180V J 150pF 500V K 150pF 500V K 150pF 500V K 150pF 500V K 1000µF 18V M 150pF 500V K 1000µF 18V M 1.50pF 500V K 1000µF 18V M 1.50pF 500V K 1000µF 500V K	

Description	Part Name	Part No.	Symbol No.
		ACITOR	CAPA
47µF 25V M	E CAP.	OETN1EM-476Z	C2582
10 _H F 100V M	E CAP.	QETN2AM-106Z	C2583
220µF 10V M	E CAP.	QETNIAM-227Z	C2584
0.53µF 250V J	MPP CAP.	QFZ0194-534	
0.047µFAC275V M	MF CAP.	0FZ9040-473	C2585
4700pFAC250V Z			C2901
	C CAP.	QCZ9054-472	C2902
4700pFAC250V Z	C CAP.	QCZ9054-472	C2903
4700pFAC250V Z	C CAP.	QCZ9054-472	C2904
220µF 400V M	E CAP.	QEZ0199-227	C2905
0.01µF 500V K	C CAP.	QCB32HK-103	C2906
390pF 2kV K	C CAP.	QCZ0122-391	C2907
47µF 50V M	E CAP.	QETN1HM-476Z	C2908
1800pF 50V K	C CAP.	QCB31HK-182Z	C2909
560pF 2000V K	C CAP.	QCZ0122-561	C2910
560pF 50V K	C CAP.	QCB31HK-561Z	C2912
220µF 25V M	E CAP.	QETH1EM-227Z	C2921
10µF 50V M	E CAP.	QETN1HM-106Z	C2922-23
220µF 160V M	E CAP.	0EZ0203-227	C2951
2200uF 16V N	E CAP.	QEHQ1CH-228	C2952
2200µF 16V M	E CAP.	QEHQ1CM-228	C2953
2200µF 16V M	E CAP.	QEHQ1CH-228	C2954
470µF 16V P	E CAP.		
2200µF 35V F	E CAP.	QEHRICH-477Z	C2955
3300µF 25V F	E CAP.	QEHQ1VM-228 QETN1EM-338	C2956 C2957-58
1000pF 500V N	C CAP.	QCB32HK-102Z	C2959-60
2200µF 16V P	E CAP.	QEHQ1CM-228	C2967
0.1µF 25V 2	C CAP.	QCZ0120-104Z	
220µF 16V			C2968
	E CAP.	QETN1CM-227Z	C2970
	E CAP.	QEHR1AM-477Z	C2972-73
1200µF 10V	E CAP.	QEZ0256-128	C2974-75
220µF 10V 1 0.68µF 50V	E CAP. MF CAP.	QETNIAM-227Z QFV71HJ-684Z	C2976 C2977
470pF 2000V	C CAP.	QCZ0122-471	C2978
3300pFAC250V	C CAP.		
470pFAC250V		QCZ9079-332	C2991
4/Uprac230V	C CAP.	QCZ9079-471	C2992
	ER	NSFORM	TRAI
		QQR0882-001	T2501
	HOR. DEF. TRANSF.	TOO TOOOLD	
	HOR.DEF.TRANSF. PINC.TRANSF.		
(SERVICE)	PINC.TRANSF. FBT	QQR0706-001	T2521
(SERVICE:	PINC.TRANSF.		
(SERVICE	PINC.TRANSF. FBT DAF TRANSF.	QQR0706-001 QQH0054-002-12 CE42692-001J1	T2521 T2551 T2561
(SERVICE)	PINC.TRANSF. FBT	QQR0706-001 QQH0054-002-12	T2521 T2551
(SERVICE	PINC.TRANSF. FBT DAF TRANSF. SW TRANSF.	QQR0706-001 QQH0054-002-12 CE42692-001J1 CETS129-001J4	T2521 T2551 T2561 T2901
(SERVICE	PINC.TRANSF. FBT DAF TRANSF. SM TRANSF. POWER TRANSF.	QQR0706-001 QQH0054-002-I2 CE42692-00111 CETS129-001J4 QQT0147-001	T2521 T2551 T2561 T2901
(SERVICE	PINC.TRANSF. FBT DAF TRANSF. SM TRANSF. POWER TRANSF.	QQR0706-001 QQH0054-002-I2 CE42692-00111 CETS129-001J4 QQT0147-001	T2521 T2551 T2561 T2901 T2921
(SERVICE	PINC. TRANSF. FBT DAF TRANSF. SW TRANSF. POWER TRANSF.	QR0706-001 QH0054-002-12 CE42692-001J1 CETS129-001J4 QT0147-001	72521 72551 72561 72901 72921
(SERVICE	PINC.TRANSF. FBT DAF TRANSF. SM TRANSF. SM TRANSF. CHOKE COIL CHOKE COIL LINEARITY COIL	QR0706-001 QH0054-002-12 CE42692-001J1 CET5129-001J4 QQT0147-001 QQU0147-001	T2521 T2551 T2561 T2901 T2921 T2921
(SERVICE)	PINC. TRANSF. FBT DAF TRANSF. SM TRANSF. SM TRANSF. CHOKE COIL CHOKE COIL LIMERATTY COIL HEATER CHOKE	QR0961-001 QH0054-002-12 CE42692-001J1 CET5129-001J4 QT0147-001 QQL43AJ-332 QQL7020-801 QQR0961-002 QQL7018-560	T2521 T2551 T2561 T2901 T2901 T2921
(SERVICE)	PINC.TRANSF. FBT DAF TRANSF. SW TRANSF. SW TRANSF. CHOKE COIL CHOKE COIL LINEARITY COIL HEATER CHOKE CHOKE COIL	QQR0706-001 QQH0054-002-12 CE42692-001J1 CET5129-001J4 QQT0147-001 QQL43AJ-332 QQL7020-801 QQR0961-002 QQL7018-560 QQL4018-1002	T2521 T2551 T2561 T2901 T2901 T2921 L2451 L2452 L2552 L2551 L2901-02
	PINC. TRANSF. FBT DAF TRANSF. SM TRANSF. CHOKE COIL CHOKE COIL CHOKE COIL LINEARITY COIL HEATER CHOKE CHOKE COIL HEATER CHOKE CHOKE COIL HEATER CHOKE	QQR076-001 QQR076-002-12 E42692-001.11 CET5129-001.14 QQT0147-001 QQR076-001 QQR076-001 QQR076-001 QQL2018-560 QQL2018-660	T2521 T2551 T2561 T2901 T2901 T2921 COI
(SERVICE)	PINC.TRANSF. FBT DAF TRANSF. SM TRANSF. POWER TRANSF. CHOKE COIL LINEARITY COIL HEATER CHOKE COIL HEATER CHOKE COIL	QQR076-001 QH0054-002-12 CE42692-001.11 CETS129-001.14 QQT0147-001 QQL2020-801 QQR0951-002 QQL2018-560 QQL2018-560 QQL2018-560 QQL2018-660 QQL2018-660 QQL2018-660 QQL2018-660 QQL2018-660 QQL2018-660 QQL2018-660 QQL2018-660	T2521 T2551 T2561 T2901 T2921 T2921 T2921 L2451 L2452 L2522 L2551 L2901-02 L2951 L2952-54
	PINC.TRANSF. FBT DAF TRANSF. SM TRANSF. SM TRANSF. CHOKE COIL CHOKE COIL CHOKE COIL LIMEATITY COIL HEATER CHOKE CHOKE COIL HEATER CHOKE COIL CHOKE COIL CHOKE COIL CHOKE COIL	0080706-001 0090054-002-12 CE4259-001.11 CET5129-001.14 00170147-001 QQL2020-801 00L2020-801 00L2020-801 00L2018-50 00L2018-50 00L2018-60 00L2018-60 00L2018-60 00L2018-60	T2521 T2551 T2561 T2901 T2901 T2921 COI
22μ	PINC.TRANSF. FBT DAF TRANSF. SW TRANSF. CHOKE COIL CHOKE COIL LINEARITY COIL HEATER CHOKE COIL LHEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE	QQB076-001 QQH0054-002-12 CE42692-001.11 CET5129-001.14 QQT0147-001 QQC034-332 QQL2020-801 QQR0961-002 QQL2018-160 QQL2018-460 QQL2018-460 QQL2018-460	T551 T2551 T2561 T2901 T2921 COI L2451 L2452 L2552 L2552 L2901-02 L2955 L2955 L2955
	PINC.TRANSF. FBT DAF TRANSF. SM TRANSF. SM TRANSF. CHOKE COIL CHOKE COIL CHOKE COIL LIMEATITY COIL HEATER CHOKE CHOKE COIL HEATER CHOKE COIL CHOKE COIL CHOKE COIL CHOKE COIL	0080706-001 0090054-002-12 CE4259-001.11 CET5129-001.14 00170147-001 QQL2020-801 00L2020-801 00L2020-801 00L2018-50 00L2018-50 00L2018-60 00L2018-60 00L2018-60 00L2018-60	72521 72551 72561 72901 72901 72921
22μ	PINC.TRANSF. FOT DAF TRANSF. SW TRANSF. CHOKE COIL CHOKE COIL LINEARITY COIL HEATER CHOKE COIL	0080706-001 0090706-001 0090054-002-12 CE42592-001.11 CET5129-001.14 0010147-001 00143AJ-332 0012020-801 0012038-1002 001218-560 0012048-220Z 0012018-460 0012048-220Z	7551 72561 72561 72901 72921 7
22μ	PINC. TRANSF. FBT DAF TRANSF. SM TRANSF. SM TRANSF. CHOKE COIL CHOKE COIL CHOKE COIL LINEARITY COIL HEATER CHOKE CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL ST. DIODE	QQR076-001 QQHQ054-002-12 CE1529-001.14 QQT0147-001 QQT0147-001 QQL43A.1-332 QQL2020-801 QQR0951-002 QQL2018-560 QQL2018-560 QQL2018-601 QQL2018-601 QQL2018-600 QQL2018-660 QQL26AK-220Z	7551 77561 77561 77561 77901 77921 77921 12451 12452 12552 12552 12551 12951 12951 12955 12955 12955 12955
22μ	PINC.TRANSF. FBT DAF TRANSF. SM TRANSF. SM TRANSF. CHOKE COIL CHOKE COIL LIMEARITY COIL HEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL SI . DIODE SI . DIODE SI . DIODE	QQR076-001 QQR076-002-12 CE4259-001.11 CETS129-001.14 QQT0147-001 QQL43A1-332 QQL2020-801 QQL2018-560 QQL2018-560 QQL2018-60 QQL2018-60 QQL2018-60 QQL26AK-220Z	75511 77551 77551 77551 77561 77561 77591 77591 17591
22μ	PINC.TRANSF. FBT DAF TRANSF. SW TRANSF. SW TRANSF. CHOKE COIL CHOKE COIL CHOKE COIL LINEARITY COIL MEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL SI DIODE SI DIODE SI DIODE SI DIODE	QQR076-001 QQR076-002-12 CE42692-001.11 CET5129-001.14 QQT0147-001 QQR0761-002 QQL43AJ-332 QQL2020-801 QQR0961-002 QQL2018-560 QQL2018-460 QQL2048-1202 QQR0518-001 QQL2018-460 QQL26AK-220Z DE 8Y0330-T3 15581-75	7551 77561 77561 77561 77291 7
22μ	PINC.TRANSF. FBT DAF TRANSF. SW TRANSF. SW TRANSF. CHOKE COIL CHOKE COIL LIMEARITY COIL HEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL SI DIODE	QQR076-001 QQR076-002-12 CE4259-001.11 CE75129-001.14 QT0147-001 QQL43AJ-332 QQL208-801 QQR0961-002 QQL2018-560 QQL2018-560 QQL2018-602 QQL2018-602 QQL2018-602 QQL2018-602 QQL2018-603 QQL2018-603 QQL2018-603 QQL2018-603	75511 77561 77561 77561 77561 77561 77591 17561 17561 17591
22μ	PINC.TRANSF. FBT DAF TRANSF. SW TRANSF. SW TRANSF. CHOKE COIL CHOKE COIL CHOKE COIL LINEARITY COIL MEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL HEATER CHOKE COIL SI DIODE SI DIODE SI DIODE SI DIODE	QQR076-001 QQR076-002-12 CE42692-001.11 CET5129-001.14 QQT0147-001 QQR0761-002 QQL43AJ-332 QQL2020-801 QQR0961-002 QQL2018-560 QQL2018-460 QQL2048-1202 QQR0518-001 QQL2018-460 QQL26AK-220Z DE 8Y0330-T3 15581-75	7551 77561 77561 77561 77291 7

Δ.	Symbol No.	Part No.	Part Name	Description Local
_	DIO	DE		
	D2551-52 D2553 D2554 D2555-56	BYW95B-20 BYD33G-T3 MTZJ4.7A-T2 BYD33G-T3	SI.DIODE SI.DIODE ZEMER DIODE SI.DIODE	*
	D2581 D2582 D2583 D2584	MTZJ15B-T2 MTZJ7.5B-T2 MTZJ7.5S-T2 BYD33G-T3	ZENER DIODE ZENER DIODE ZENER DIODE SI.DIODE	* * *
A	02901 02902 02903 02904 02905 02907 02921-24 02925	D35860 8YD33M-T3 8YD33D-T3 8YD33D-T3 155133-T2 MTZJ158-T2 1N4003-T2 MTZJ108-T2	BRIOGE DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE ZENER DIODE ZENER DIODE ZENER DIODE	8 8 8 8 8
	D2951 D2953 D2954 D2955 D2956-57 D2958 D2959 D2960	RU48-F1 FMX-G125 BYW958-20 SF6L20U FMX-G125 BYD33M-T3 RK44-LFT4 MTZJ338-T2	SI. DIODE ZENER DIODE	
	D2961-62 D2964-66 D2981-82	155133-T2 155133-T2 155133-T2	SI.DIODE SI.DIODE	*
_	TRAI	NSISTO	R	
Δ	Q2452 Q2501 Q2502 Q2521 Q2581 Q2582 Q2583 Q2921	25K2459N-F54 B5N274 25C1815/YG/-T 25C5552-LT 25A949/Y/Z1-T DTC144E5A-T 25C1815/YG/-T 25C2655/Y/-T	F.E.T. F.E.T. SI. TRANSISTOR SI. TRANSISTOR SI. TRANSISTOR DIGI. TRANSISTOR SI. TRANSISTOR SI. TRANSISTOR	H.OUT # #
	Q2981-82	2SC1815/YG/-T	SI.TRANSISTOR	*
-	IC			
	IC2451 IC2901 IC2951 IC2952 IC2953 IC2954 IC2955 IC2956	BA10393 STR-F6668B SE140N BA12T SI-8050S BA033T UPC2409AHF BA08T	IC I C I.C. (HYBRID) I.C. (MOND-ANA) I.C. (HYBRID) I.C. (MOND-ANA) I.C. (MOND-ANA) I.C. (MOND-ANA) I C	
	отн	ERS		
<u>A</u> A	CP2953 CP2954 CP2955 K2521 K2523-25 K2901-02 K2951 K2952	ERS ICP-N75-Y QMFZ034-4R0Z-J1 QMFZ034-4R0Z-J1 CE41832-001 CE41832-001 CE4050-001Z QQR0679-001 CE41433-001Z	I.C.PROTECT FUSE FUSE FUSE LEAD CORE LEAD CORE CORE FERRITE BEADS BEADS CORE	4A * 4A * * * * * * * * * * * *

Δ	Symbol No.	Part No.	Part Name	Description Local
	RES	ISTOR		
	R3101	QRE141J-272Y	C R	2.7kΩ 1/4W J *
	R3102	QRE141J-153Y	Č R	15kΩ 1/4W J *
	R3103	QRE141J-152Y	ČŘ	1.5kΩ 1/4W J *
		QRE141J-680Y	CR	68Ω 1/4W J *
	R3104			
	R3105	QRE141J-221Y	C R	220Ω 1/4W J *
7	R3106	QRJ146J-100X	C R	10Ω 1/4W J *
	R3107-08	QRE141J-470Y	C R	47Ω 1/4W J *
١	R3109	QRZ9021-561	FUSI.RESISTOR	560 Ω IN J *
	R3110	QRE141J-122Y	C R	1.2kΩ 1/4W J *
	R3111	QRE141J-390Y	C R	39Ω 1/4W J *
	R3112	QRE141J-2R7Y	C R	2.7Q 1/4W j *
	R3113-14	QRE141J-563Y	C R	56kΩ 1/4W J *
	R3115	ORE141J-122Y	ĊŔ	1.2kΩ 1/4W J *
	R3116	ORE141J-2R7Y	CR	2.7Q 1/4W J #
	R3117	QRE141J-390Y	C R	39Ω 1/4W J *
	R3118	QRE141J-121Y	C R	120Ω 1/4W J *
	R3119	QRL029J-391	OM R	390Ω 2W j +
	R3130	QRE141J-101Y	C R	100Ω 1/4W J *
	R3204-06	QRE141J-152Y	C R	1.5kΩ 1/4W J *
	R3207	QRE141J-562Y	C R	5.6kΩ 1/4H J #
	R3208	QRE141J-123Y	C R	12kQ 1/4W J *
	R3211	QRE141J-334Y	ČŘ	330kQ 1/4W J *
	R3223-25		C R	1.8kQ 1/4W J *
	R3227	QRE141J-182Y QRE141J-272Y	C R	2.7kQ 1/4W J *
	R3228	QRE141J-822Y	C R	8.2kQ 1/4W J *
	R3229-31	QRG01GJ-823	OM R	82kΩ 1W J *
	R3232-34	QRE141J-332Y	C R	3.3kΩ 1/4W J *
	R3235-37	QRC121K-152Z	COMP.R	1.5kQ 1/2W K *
	R3239	QRZ0107-474Z	CR	0.47uF 1/2W K #
	R3240	QRZ0107-102Z	C R	15 Ω 1/2W K *
	R3241	QRZ0107-105Z	ČŘ	15 Ω 1/2W K
	R3301-02	QRE121J-474Y	ČŘ	470kQ 1/2W) *
	R3303-04	QRE141J-223Y	C R	22kQ 1/4W J *
	R3305	QRE141J-562Y	CR	5.6kQ 1/4W J *
	R3306	ORE141J-392Y	ČŘ	3.9kQ 1/4W J #
	R3307	QRE141J-101Y	C R	100Ω 1/4W J *
	R3308	QRE141J-471Y	CR	470Ω 1/4W J *
	R3309	QRE141J-120Y	C R	12Ω 1/4W J *
	R3310	QRE141J-331Y	C R	3300 1/4W J *
	R3311-12	QRE141J-472Y	CR	4.7kΩ 1/4W J *
	R3313	QRE141J-102Y	C R	1kΩ 1/4W J *
-	CAPA	ACITOR		
	C3101	QETN1HM-106Z	E CAP.	10µF 50V H +
	C3103	QETN1HM-335Z	E CAP.	3.3µF 50V M *
	C3104	QETN1CH-107Z	E CAP.	100µF 16V M *
	C3105	QCS31HJ-101Z	C CAP.	100pF 50V J *
	C3106	QCS31HJ-181Z	C CAP.	180pF 50V J *
		QETN2CM-106Z	E CAP.	
	C3107			
	C3108-09 C3110	QCB32HK-472Z QETN2CH-106Z	C CAP. E CAP.	4700pF 500V K * 10µF 160V H *
	C3111-12	QETNIAM-107Z	E CAP.	100µF 10V H +
	C3113	QETN1AM-337Z	E CAP.	330µF 10V M *
	C3114	QCS32HJ-470Z	C CAP.	47pF 500V J *
	C3115	QCS31HJ-5R0Z	C CAP.	5.0pF 50V J *
	C3118	QENC1HM-106Z	BP E CAP.	10µF 50V H *
	C3201-03	QCS31HJ-8R0Z	C CAP.	8.0pF 50V J *
	C3204	0CZ0120-104Z	C CAP.	1 Ω 25V Z +
	C3204	QCZ0120-104Z QCZ0120-104Z	C CAP.	1 Ω 25V Z +
	C3206	QCZ0120-104Z	C CAP.	1 Ω 25V Z *
	C3207-09	QETN1EM-476Z	E CAP.	
	C3210-12	QFK62EK-104Z	MH CAP.	0.1µF 250V K *
	C3213-15 C3216	QCS31HJ-181Z QETN1CM-107Z	C CAP. E CAP.	180pF 50V J * 100μF 16V M *

Δ	Symbol No.	Part No.	Part Name	Descriptio	n Local
_	CAPA	ACITOR			
	C3218 C3219 C3221 C3301 C3302	QETM2EM-336 QFZ0097-223 QETM2EM-106Z QETM1CM-107Z QFLC1HJ-103Z	E CAP. MM CAP. E CAP. E CAP. M CAP.	0.022μF 1250V 10μF 250V 100μF 16V	H * K * H * H *
_	COLI				
	L3201-03 L3301	QQL01BK-4R7Z QQL26AJ-102Z	COIF	4.7 _Մ 1000µ	
-	DIO)E			
	D3101-02 D3151 D3204-06 D3208-10 D3301 D3302-03	RH15-T3 155133-T2 EU01N-T2 15R124-400A-T2 155252-T2 155133-T2	SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE SI. DIODE		*
-	TRAN	ISISTO	R	<u> </u>	
	Q3102-03 Q3104 Q3105 Q3106 Q3301 Q3302 Q3303 Q3304-05	25C3311A/QR/-T 25A1309A/QR/-T 25A1837 25C4793 25A1015/YG/-T 25C2655/Y/-T 25C3311A/QR/-T	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR		* * * * * *
_	IC				
	IC3201-03	TDA6111Q	I.C.(MONO-ANA)		
-	ОТНЕ	ERS		***************************************	
Δ	K3101-04 K3105 SG3201-03 SK3001	CE41492-001Z CE41433-001Z CE42447-501 CE42670-001	CHOKE COIL BEADS CORE ARRESTOR C.R.T.SOCKET		:

		Part No.	Part Name	Description	
	RES	ISTOR			
	R6101	ORN143J-2R2X	C R	2.2Ω 1/4W J	
	R6102	QRE141J-562Y	CR	5.6kΩ 1/4W J	
	R6103	QRE141J-223Y	C R	22kΩ 1/4W J	
	R6104	QRE141J-681Y	CR	680Ω 1/4W J	
	R6105-06	QRE141J-223Y	CR	22kΩ 1/4W J	
	R6107	QRE141J-183Y	C R	18kΩ 1/4W J	
	R6108	QRN143J-2R2X	C R	2.2Ω 1/4W J	
	R6109	QRE141J-562Y	C R	5.6kΩ 1/4W J	
	R6110	QRE141J-223Y	CR	22kΩ 1/4W J	
	R6111	QRE141J-681Y	CR	680Ω 1/4W J	
	R6112-13	QRE141J-223Y	C R	22kΩ 1/4W J	
	R6114	QRE141J-183Y	C R	18kΩ 1/4W J	
	R6115	QRN143J-103X	C R	10kΩ 1/4W J	
	R6116	QRE141J-273Y	C R	27kΩ 1/4W J	
	R6118-19 R6122-23	QRE141J-104Y QRE141J-104Y	C R C R	100kΩ 1/4W J 100kΩ 1/4W J	
		•			
	R6124 R6125-26	QRE141J-472Y ORE141J-223Y	C R C R	4.7kΩ 1/4W J 22kΩ 1/4W J	
		(11111111111111111111111111111111111111			
_	CAP	ACITOR			-
	C6101	QFV71HJ-684Z	HF CAP.	0.68µF 50V J	
	C6102-03	QETM1EM-228	E CAP.	2200µF 25V M	
	C6104	QETN1HM-476Z	E CAP.	47µF 50V M	
	C6105	QETN1HM-105Z	E CAP.	1µF 50V M	
	C6106	QETN1CM-107Z	E CAP.	100µF 16V M	
	C6108	QFV71HJ-684Z	HF CAP.	0.68µF 50V J	
	C6109-10	QFV71HJ-104Z	MF CAP.	0.1µF 50V J	
	C6111	QETN1HM-4762	E CAP.	47µF 50V M	
	C6112	QETN1HM-105Z	E CAP.	1µF 50V M	
	C6113	QETH1CM-107Z	E CAP.	100µF 16V M	
	C6115-16	QFV71HJ-684Z	MF CAP.	0.68µF 50V J	
	C6125-26	QCS31HJ-181Z	C CAP.	180pF 50V J	
	C6127	QFLC1HJ-103Z	H CAP.	0.01µF 50V J	
_	DIO	DE .			
	D6101-04	MTZJ27B-T2	ZENER DIODE		
	D6105	MTZJ5.18-T2	ZENER DIODE		
	D6107	155133-T2	SI.DIODE		
	D6108	MA700A-T2	SI.DIODE		
	D6110-11	155133-T2	SI.DIODE		
	TRAI	VSISTO	R		_
	Q6101	DTC144ESA-T	DIGI.TRANSISTOR		
	Q6102	25A1015/YG/-T	SI.TRANSISTOR		
	Q6104	25A1015/YG/-T	SI.TRANSISTOR		
	Q6105	DTC144ESA-T	DIGI.TRANSISTOR		
	Q6106-07	DTC323TS-T	DIGI.TRANSISTOR		
_	IC				
	IC6101-02	TDA2052V	T C (MONO ANA)		
	10101-07	INVENDEA	I.C.(MONO-ANA)		
-	отні	ERS			
	K6001-02	CE41433-001Z	BEADS CORE		

7	Symbol No.	Part No.	Part Name	Description I	Loca
	RES	STOR			
	R8001-02	ORE121J-151Y	CR	150Ω 1/2W J	
	R8003	QRE141J-222Y	C R	2.2kΩ 1/4W J	
	R8004	QRE141J-472Y	C R	4.7kΩ 1/4W J	
	R8005	QRE141J-561Y	C R	560Ω 1/4W J	
	R8007	QRE141J-103Y	CR	10kΩ 1/4W J	
	R8008	QRE141J-682Y	C R	6.8kΩ 1/4W J	
	R8009	QRE141J-105Y	C R	1MO 1/4W J	
	R8010	QRE141J-183Y	C R	18kΩ 1/4W J	
	R8011	QRE141J-123Y	C R	12kΩ 1/4W J	
	R8012	QRE1411-273Y	CR	27kΩ 1/4W J	
	R8013	QRE141J-332Y	C R	3.3kΩ 1/4W J	
	R8014	QRE141J-123Y	CR	12kΩ 1/4W J	
	R8020	QRE141J-562Y	C R	5.6kΩ 1/4W J	
	R8035	QRE141J-391Y	CR	390Ω 1/4W J 5600 1/4W J	
	R8036-38	QRE141J-561Y	C R C R	560Ω 1/4W J 820Ω 1/4W J	
	R8039	QRE141J-821Y	C K	020a2 174W J	
_	CAP	ACITOR	2		
	C8001-02	QCB31HK-103Z	C CAP.	0.01µF 50V K	
	C8003	QETN1HM-106Z	E CAP.	10µF 50V M	
	C8004	QCZ0120-104Z	C CAP.	0.1µF 25V Z	
	C8005	QETN1EM-476Z	E CAP.	47µF 25V H	
	C8010-11	QCB31HK-472Z	C CAP.	4700pF 50V K	
	C8019	QETN1CH-107Z	E CAP.	100μF 16V H 0.1μF 25V Z	
	C8021	QCZ0120-104Z	C CAP.		
	C8022	QETW1EM-476Z	E CAP.	47μF 25V M	
	C8023	QCZ0120-104Z	C CAP.	0.1µF 25V Z	
A	C8901	0FZ9040-474	MF CAP.	0.47µFAC275V M	

	C8001-02	QCB31HK-103Z	C CAP.	0.01µF 50V K	
	C8003	QETN1HM-106Z	E CAP.	10µF 50V M	
	C8004	QCZ0120-104Z	C CAP.	0.1µF 25V Z	
	C8005	QETN1EM-476Z	E CAP.	47µF 25V H	
	C8010-11	QCB31HK-472Z	C CAP.	4700pF 50V K	
	C8019	QETN1CH-107Z	E CAP.	100µF 16V M	*
	C8021	QCZ0120-104Z	C CAP.	0.1µF 25V Z	*
	C8022	QETW1EM-476Z	E CAP.	47μF 25V H	*
	C8023	QCZ0120-104Z	C CAP.	0.1µF 25V 2 0.47uFAC275V H	:
7	C8901	QFZ9040-474	MF CAP.	0.47µFAC275V H	•
_	COII			,	
	L8001	00R0716-001Z	LEAD CORE		
	L8002-03	00L211K-5R6Y	COIL	5.6µH	
	L8010-11	00L211K-270Y	COIL	27µH	
	L8012	QQR0716-001Z	LEAD CORE		
-	DIO	DE			
	D8007	P1241-04	C.D.S.		
	D8008	155133-T2	SI.DIODE		*
	D8009	SLR-342MG-T16	L.E.D. (GRN)		
	D8010	SPR-39HVWF	L.E.D.		
	D8011	155133-T2	SI.DIODE		
	D8012	SLR-342DU-T16	L.E.D. (ORG)		
	D8013	SLR-342YY-T16	L.E.D. (YLW)		
	D8014	MTZJ6.8A-T2	ZENER DIODE		
	D8018	MTZJ5.18-T2	ZENER DIODE		
_	TRAI	NSISTO	R		
	08001	2SA1015/YG/-T	SI.TRANSISTOR		
	Q8001 Q8002	DTC144ESA-T	DIGI.TRANSISTOR		- 1
	08003-04	DTA144ESA-T	DIGI.TRANSISTOR		-
	08005-07	DTC144ESA-T	DIGI.TRANSISTOR		
	V0-C0009	DICITALISM*)	5101.110M31370N		
-	IC				
		GP1U2810	IFR DETECT UNIT		

Δ	Symbol No.	Part No.	Part Name	Description	Loca.
_	отн	RS			
		CEMG002-001Z	FUSE CLIP		
		CM36548-001-E	L.E.D.HOLDER		*
		CM35921-005-H	CDS HOLDER		
	CN8002	CHC108N-25T-AE	FFC CONNECTOR		
	CN8017	CH42151-005RT	JL PLUG		
	CN8117	CH42151-005PSP	JL PLUG		
٨	F8901	OMF51D2-3R15J1	FUSE	3.15A	
ш	18001	QMS3007-C01	JACK		
•	J8003	OMD2B04-002	MINI CONNECTOR		
	18004	CEMN011-001	JACK		
	18005	CEMN011-002	JACK		
	J8006	CEMN011-003	JACK		
Δ	LF8901	CELF012-001J7	LINE FILTER		
Ā	LF8902	CELF012-001J7	LINE FILTER		
_	\$8001	CESP001-001	PUSH SWITCH	CH DOWN/UP	
	58002	CESP001-001	PUSH SWITCH	MENU	4
Δ	\$8901	05W0750-001	PUSH SWITCH	MAIN POWER	

DOLBY PW BOARD ASS'Y (SMD0D001A-U2)

٨	Symbol No.	Part No.	Part Name	Description	Loca
	RESI	STOR			
	R0101	MRSA02J-153X	MG R	15kΩ 1/10W J	
	R0102	MRSA02J-683X	MG R	68kΩ 1/10W j	
	R0103	WRSA02J-153X	MG R	15kΩ 1/10W J	
	R0104	WRSA02J-683X	MG R	68kΩ 1/10W J	
	R0105	WRSA02J-105X	MG R	1MΩ 1/10W J	
	R0106-09	MRSA02J-271X	MG R	270Ω 1/10W J	
	R0111	NRSA02J-102X	MG R	1kΩ 1/10w J	
	R0112	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
	R0113	MRSA02J-102X	MG R	1kΩ 1/10W J	
	R0114	MRSA02J-OROX	MG R	0.0Ω 1/10W J	
	R0115 -	WRSA02J-102X	MG R	1kΩ 1/10W J	
	R0201	NRSA02J-103X	MG R	10kΩ 1/10w J	
	R0203	NRSA02J-103X	MG R	10kΩ 1/10w J	
	R0204	NRSA02J-563X	MG R	56kΩ 1/10W J	
	R0205	NRSA02J-103X	MG R	10kΩ 1/10w J	
	R0207	NRSA02J-103X	MG R	10kΩ 1/10W J	
	R0208	NRSA02J-563X	MG R	56kΩ 1/10W J	
	R0209	MRSA02J-123X	MG R	12kΩ 1/10₩ J	
	R0211	NRSA02J-123X	MG R	12kΩ 1/10₩ J	
	R0212	MRSA02J-103X	MG R	10kΩ 1/10W J	
	R0214-15	NRSA02J-104X	MG R	100kΩ 1/10₩ J	
	R0216	WRSA02J-103X	MG R	10kΩ 1/10w J	
	R0217	WRSA021-123X	MG R	12kΩ 1/10W J	
	R0219	MRSA02J-123X	MG R	12kΩ 1/10W J	
	R0221	NRSA02J-104X	MG R	100kΩ 1/10w J	
	R0222	NRSA02J-103X	MG R	10kΩ 1/10W J	
	R0223	NRSA02J-153X	MG R	15kΩ 1/10W J	
	R0225	NRSA02J-223X	MG R	22kΩ 1/10W J	
	R0227	NRSA02J-104X	MG R	100kΩ 1/10w 3	
	R0228	NRSA02J-153X	MG R	15kΩ 1/10W J	
	R0229	NRSA02J-223X	MG R	22kΩ 1/10W J	
	R0231	MRSA02J-103X	MG R	10kΩ 1/10w J	

Symbol No.	Part No.	Part Name	Description L	.ocal
RES	ISTOR			
R0232-33	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
R0301	WRSA02J-103X	MG R	10kΩ 1/10W J	
R0401	NRSA02J-102X	MG R	1kΩ 1/10W J	
R0402-03	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
R0402-03	NRSA02J-302X	MG R	1kΩ 1/10W J	
		MG R	1kΩ 1/10W J	
R0431	NRSA02J-102X	MG R	5.6kΩ 1/10W J	
R0432-33	NRSA02J-562X	mu K MG R	1kΩ 1/10W J	į
R0434	MRSA02J-102X	MG K	1K12 1/10W J	•
R0451	MRSA021-273X	MG R	27kΩ 1/10W J	*
R0452	NRSA02J-683X	MG R	68kΩ 1/10W J	
R0453	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
R0454	NRSA02J-473X	MG R	47kQ 1/10W J	
R0455	HRSAO2J-333X	MG R	33kΩ 1/10W J	*
R0456-57	HRSA02J-473X	MG R	47kΩ 1/10W J	
R0458	NRSA02J-102X	MG R	1kQ 1/10W J	
R0459	NRSA02J-223X	MG R	22kΩ 1/10W J	
NU433	HKJNV2J-22JA	110 K	22146 272411 9	
R0460	NRSA02J-393X	MG R	39kΩ 1/10W J	*
R0461	MRSA02J-273X	MG R	27kΩ 1/10W J	
R0462	MRSA02J-122X	MG R	1.2kΩ 1/10W J	*
R0463	NRSA02J-273X	MG R	27kΩ 1/10W J	*
R0464	NRSA02J-683X	MG R	68kΩ 1/10₩ J	*
R0465	MRSA02J-OROX	MG R	0.0Ω 1/10W J	
R0466	NRSA02J-473X	MG R	47kΩ 1/10W J	
R0467	MRSA02J-333X	MG R	33kΩ 1/10W J	*
R0468-69	NRSA02J-473X	MG R	47kΩ 1/10W J	*
R0470	NRSA02J-102X	MG R	1kΩ 1/10W J	*
R0471	NRSA02J-223X	MG R	22kΩ 1/10W J	*
R0472	NRSA02J-393X	MG R	39kΩ 1/10W J	*
R0473	NRSA02J-273X	MG R	27kΩ 1/10W J	
R0474	MRSA02J-122X	MG R	1.2kΩ 1/10W J	*
R0475	NRSA02J-123X	MG R	12kΩ 1/10W J	
R0476	WRSA02J-101X	MG R	100Ω 1/10W J	*
00477	HDC+03+ 333V	wc n	22kΩ 1/10W J	*
R0477	NRSA02J-223X	MG R	22kΩ 1/10W J	
R0478	MRSA02J-101X	MG R	100Ω 1/10W J 22kΩ 1/10W J	
R0479	NRSA02J-223X	HG R		*
R0480	HRSA02J-101X	MG R	100Ω 1/10W J	
R0481-82	NRSA02J-223X	MG R	22kΩ 1/10₩ J	*
R0483	NRSA02J-183X	MG R	18kΩ 1/10W J	*
R0484	NRSA02J-223X	HG R	22kΩ 1/10W J	
R0485-86	NRSA02J-103X	HG R	10kΩ 1/10W J	
R0491	NRSA02J-101X	HG R	100Ω 1/10W J	*
R0492	MRSA02J-0R0X	MG R	0.0Ω 1/10W J	
		MG R	22kΩ 1/10W J	
R0501 R0502	MRSA02J-223X MRSA02J-332X	MG R	3.3kΩ 1/10W J	
			10kΩ 1/10W J	
R0503	MR\$A02J-103X	MG R MG R	100kΩ 1/10W J	
R0504	MRSA02J-104X		3.3kΩ 1/10W J	•
R0505 R0506	NRSAO2J-332X NRSAO2J-122X	MG R MG R	1.2kΩ 1/10W J	- ;
V0200	W2V051-155Y	ING IL	1.4KM 1/10M J	•
R0507	NRSA02J-223X	MG R	22kΩ 1/10W J	
R0508	NRSA02J-103X	MG R	10kQ 1/10W 3	*
R0509	NRSA023-103X	MG R	100kΩ 1/10W J	*
R0510-11	NRSA02J-681X	MG R	680Ω 1/10W J	
R0512-13	NRSA02J-223X	MG R	22kΩ 1/10W J	*
R0512-13	NRSA02J-223A	MG R	100kΩ 1/10W J	
R0514 R0516	NRSA02J-104X	MG R	10kΩ 1/10W J	
R0517	MRSA02J-103X	MG R	0.0Ω 1/10₩ J	
40311	MUNUAL CANA	IN N	0.031 1/10M J	•
R0518	MRSA02J-103X	MG R	10kΩ 1/10W J	
R0519	MRSA02J-OROX	NG R	0.0Ω 1/10W J	
CAP	ACITOR	<u> </u>		
			A 1 200 7	
C0101	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
C0103	NDC21HJ-221X	C CAP.	220pF 50V J	*
C0104	NEH71HM-475X	E CAP.	4.7μF 50V M	
C0105	MCF21EZ-104X	C CAP.	0.1µF 25V Z	
C0106-08	NEH71CM-476X	E CAP.	47μF 16V M	

Loc	on	ripti	Desc	Part Name	Part No.	Symbol No.
_					CITOR	CAPA
	Ħ	50V	4.7µF	E CAP.	MEH71HM-475X	C0109
	J	50V	220pF	C CAP.	NOC21HJ-221X	C0110
	J	50V	10pF	C CAP.	NDC21HJ-100X	C0111-12
	Ħ	16V	47μF	E CAP.	NEH71CH-476X	C0114-15
	Z	25V	0.1µF	C CAP.	NCF21EZ-104X	C0116
	M 7	16V	47µF	E CAP.	NEH71CH-476X	C0117-19
	M	25V 16V	0.1μF 47μF	C CAP. E CAP.	NCF21EZ-104X NEH71CM-476X	C0120 C0121-22
	Z	25V	0.1μF	C CAP.	NCF21EZ-104X	C0123
	ĵ	50V	220pF	C CAP.	NOC21HJ-221X	C0124-27
	М	16V	47µF	E CAP.	NEH71CM-476X	C0128
	Z	25V	0.1μF	C CAP.	NCF21EZ-104X	C0129-33
	H Z	16V 25V	220µF	E CAP.	NEHE1CH-227X	C0134
	H	25V	0.1μF 100μF	C CAP. E CAP.	NCF21EZ-104X	C0135
	H	16V	47μF	E CAP.	NEHE1EN-107X Neh71CM-476X	C0137 C0138
	H	16V	220µF	E CAP.	NEHE1CH-227X	C0139
	Z	25V	0.1µF	C CAP.	WCF21EZ-104X	C0142
	Z	25V	0.1μF	C CAP.	NCF21EZ-104X	C0144-45
	Ħ	25V	100μF	E CAP.	WEHE1EM-107X	C0146
	K	50V	1000pF	C CAP.	WCB21HK-102X	C0147
	K	50V	2200pF	C CAP.	NCB21HK-222X	C0148-49
	M Z	16V 16V	10µF 1µF	E CAP. C CAP.	NEH71CM-106X NCF21CZ-105X	C0150 C0201-02
	H	25V	100µF	E CAP.	NEHELEM-107X	C0203
	Z	167	1µF	C CAP.	MCF21CZ-105X	C0204-05
	Z	167	1µF	C CAP.	NCF21CZ-105X	C0208
	J	50V	47pF	C CAP.	MDC21HJ-470X	C0209
	j	50V	47pF	C CAP.	NDC21HJ-470X	C0212
	Z	16V	1µF	C CAP.	MCF21CZ-105X	C0213
	M	25V 16V	100μF 1μF	E CAP. C CAP.	NEHE1EM-107X NCF21CZ-105X	C0214 C0217
	J	50V	47pF	C CAP.	NDC21HJ-470X	C0218
	ź	167	1μF	C CAP.	NCF21CZ-105X	C0219
	j	50V	47pF	C CAP.	NOC21HJ-470X	C0220
	M	16V	47µF	E CAP.	NEH71CH-476X	C0223-25
	J	/10W	0.0Ω 1	MG R	NRSA02J-OROX	C0226-29
	Ħ	16V	47µF	E CAP.	NEH71CH-476X	C0301
	H	25V 16V	22µF 47µF	E CAP. E CAP.	MEH71EM-226X MEH71CM-476X	C0401 C0402
	K	50V	2700pF	C CAP.	NCB21HK-272X	C0403-04
	Z	16V	1µF	C CAP.	NCF21CZ-105X	C0405-06
	Z	25V	0.1µF	C CAP.	NCF21EZ-104X	C0407-10
	М	25V	22uF	E CAP.	NEH71EH-226X	C0431
	H	16V	220µF	E CAP.	MEHE1CM-227X	C0432
	K	50V	2700pF	C CAP.	MCB21HK-272X	C0433-34
	2	16V	1µF	C CAP.	MCF21CZ-105X	C0435
	Z	25V	0.1µF	C CAP.	NCF21EZ-104X	C0436-39
	Z	16V 16V	1րF 1րF	C CAP. C CAP.	NCF21CZ-105X NCF21CZ-105X	C0440 C0451
	í	50V	10pF	C CAP.	MCF21C2-105X MDC21HJ-100X	C0451
	K	50V	0.01µF	C CAP.	NCB21HK-103X	C0453
	K	25V	0.056µF	C CAP.	NCB21EK-563X	C0454
	Ħ	25V	100µF	E CAP.	NEHE1EM-107X	C0456
	Z	16V	1µF	C CAP.	NCF21CZ-105X	C0457
	K	25V	0.056µF	C CAP.	NCB21EK-563X	C0458
	H	25V 50V	100µF	E CAP.	NEHETEN-107X	C0459
	K	50V	0.01µF 10pF	C CAP. C CAP.	NCB21HK-103X	C0460
	Z	16V	10pr 1µF	C CAP.	NDC21HJ-100X NCF21CZ-105X	C0461 C0462
	Ž	16V	1µF	C CAP.	MCF21CZ-105X	C0465-67
	M	160	47μF	E CAP.	NEH71CH-476X	C0468
	ï	16V	1µF	C CAP.	MCF21CZ-105X	C0471-72
	K	50V	820pF	C CAP.	NCB21HK-821X	C0473
	J	50V	47pF	C CAP.	NDC21HJ-470X	C0474
	Ħ	16V	47µF	E CAP.	NEH71CM-476X	C0475
	Z	16V	1μF	C CAP.	NCF21CZ-105X	C0476
	J	50V	82pF	C CAP.	MDC21HJ-820X	C0479-80

	100	ci ipti	ves	Part Name	Part No.	Symbol No.
					ACITOR	CAPA
	Z	16V	1µF	C CAP.	NCF21CZ-105X	C0501-02
	J	50V	10pF	C CAP.	NDC21HJ-100X	C0503-04
	M	16V	47µF	E CAP.	MEH71CM-476X	C0505
	H	50V	10µF	E CAP.	MEH71HM-106X	C0506-07
	H	16V	47µF	E CAP.	MEH71CM-476X	C0508
	K	50V	2200pF	C CAP.	WCB21HK-222X	C0701-02
					_	COII
	7µН	4.7		COIL	MOLOZBJ-4R7X	L0102-05
	ОμН			COIL	MQL02BJ-100X	L0701-02
					DE .	DIO
				ZENER DIODE	MA3062/H/-X	D0201-02
				SI.DIODE	MA111-X	D0451
				ZENER DIODE	MA3062/M/-X	D0452
				SI.DIODE	MA111-X	D0453
				ZENER DIODE	MA3062/M/-X	D0454
				ZENER DIODE	MA3150/M/-X	D0501-02
				ZENER DIODE	MA3062/M/-X	D0503
				DIGI.TRANSISTOR	DTC144EKA-X	Q0301
				DIGI.TRANSISTOR DIGI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR	DTC323TK-X DTC144EKA-X 2SA1162/YG/-X DTC323TK-X	Q0451-52 Q0453 Q0501 Q0502-03
				DIGI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR	DTC323TK-X DTC144EKA-X 2SA1162/YG/-X	Q0451-52 Q0453 Q0501
		-		DIGI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR DIGI.TRANSISTOR	DTC323TK-X DTC144EKA-X 25A1162/YG/-X DTC323TK-X	00451-52 00453 00501 00502-03
		-		DIGI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR DIGI.TRANSISTOR I.C. (DIGI-MOS) I.C. (MOMO-ANA)	DTC323TK-X DTC144EKA-X 25A1162/YG/-X DTC323TK-X TC9471F MN1382/Q/-X	00451-52 00453 00501 00502-03 I C IC0101 IC0102
				DIGI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR I.C. (DIGI-MOS) I.C. (MONO-ANA) I.C. (MONO-ANA)	DTC323TK-X DTC144EKA-X 2SA1162/YG/-X DTC323TK-X TC9471F HN1382/Q/-X BA4558F-X	00451-52 00453 00501 00502-03 I C IC0101 IC0102 IC0201-03
				DIGI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR I.C. (DIGI-MOS) I.C. (MOMO-MAA) I.C. (MOMO-MAA) I.C. (LC (DIGI-MOS)	DTC323TK-X DTC144EKA-X 2SA1162/YG/-X DTC323TK-X TC9471F NN1382/Q/-X BA4558F-X TC4052BF/N/-XE	Q0451-52 Q0453 Q0501 Q0502-03 ICC ICC0101 ICC0102 ICC0201-03 ICC0301
				DIGI. TRANSISTOR DIGI. TRANSISTOR SI. TRANSISTOR DIGI. TRANSISTOR I. C. (OLIGI-MOS) I. C. (MOMO-AMA) I. C. (UNIGI-MHAS) I. C. (UNIGI-MHAS) I. C. (UCIGI-MOS)	DTC323TK-X DTC144EKA-X 25A1162/YG/-X DTC323TK-X TC9471F MN1382/Q/-X BA4558F-X TC4052BF/M/-XE TDA73150	Q0451-52 Q0453 Q0501 Q0502-03 ICC ICC0101 ICC0102 ICC0201-03 ICC0301 ICC0401
				DIGI.TRANSISTOR DIGI.TRANSISTOR DIGI.TRANSISTOR DIGI.TRANSISTOR I.C. (DIGI-HOS) I.C. (HOMO-MAA) I.C. (HOMO-MAA) I.C. (DIGI-HOS) I.C. (DIGI-HOS) I.C. (DIGI-THER) I.C. (DIGI-THER)	DTC323TK-X DTC144EKA-X 25A1162/YG/-X DTC323TK-X TC9471F MN138Z/Q/-X BA4558F-X TC4052BF/N/-XE TDA7315D TDA7315D	Q0451-52 Q0453 Q0501 Q0502-03 ICO101 IC0102 IC0201-03 IC0301 IC0401 IC0401 IC0431
				DIGI. TRANSISTOR DIGI. TRANSISTOR SI. TRANSISTOR DIGI. TRANSISTOR I.C. (DIGI-MOS) I.C. (MONG-MAA) I.C. (MONG-MAA) I.C. (DIGI-MOS) I.C. (DIGI-MOS) I.C. (DIGI-MOS) I.C. (DIGI-MOS) I.C. (DIGI-OTHER) I.C. (DIGI-OTHER) I.C. (MONG-MAA)	DTC323TX-X DTC144EKA-X 2C144EKA-X DTC323TX-X DTC323TX-X TC9471F MN1382/Q/-X BA4558F-X TC40528F-Y TC40528F-Y TDA73150 TDA73150 TDA73150	Q0451-52 Q0453 Q0501 Q0502-03 I C IC0101 IC0102 IC0201-03 IC0301 IC0401 IC0451-53
				DIGI.TRANSISTOR DIGI.TRANSISTOR DIGI.TRANSISTOR DIGI.TRANSISTOR I.C. (DIGI-HOS) I.C. (HOMO-MAA) I.C. (HOMO-MAA) I.C. (DIGI-HOS) I.C. (DIGI-TRANSISTOR) I.C. (DIGI-TRANSISTOR) I.C. (DIGI-TRANSISTOR) I.C. (DIGI-TRANSISTOR)	DTC323TK-X DTC144EKA-X 25A1162/YG/-X DTC323TK-X TC9471F MN138Z/Q/-X BA4558F-X TC4052BF/N/-XE TDA7315D TDA7315D	Q0451-52 Q0453 Q0501 Q0502-03 ICO101 IC0102 IC0201-03 IC0301 IC0401 IC0401 IC0431
				DIGI. TRANSISTOR DIGI. TRANSISTOR SI. TRANSISTOR DIGI. TRANSISTOR I.C. (DIGI-MOS) I.C. (MONG-MAA) I.C. (MONG-MAA) I.C. (DIGI-MOS) I.C. (DIGI-MOS) I.C. (DIGI-MOS) I.C. (DIGI-MOS) I.C. (DIGI-OTHER) I.C. (DIGI-OTHER) I.C. (MONG-MAA)	DTC323TK-X DTC144EA-X 25A1162/YG/-X DTC323TK-X TC9471F NN1382/Q/-X BA4538F-X TC40528F-M-XE TDA7315D DA7315D DA4538F-X BA4538F-X BA4538F-X BA4538F-X	Q0451-52 Q0453 Q0501 Q0502-03 I C IC0101 IC0102 IC0201-03 IC0301 IC0401 IC0451-53
-				DIGI. TRANSISTOR DIGI. TRANSISTOR DIGI. TRANSISTOR DIGI. TRANSISTOR I. C. (DIGI-MOS) I. C. (MOMO-ANA) I. C. (MOMO-ANA) I. C. (DIGI-OTHER) I. C. (DIGI-OTHER) I. C. (HOMO-ANA) I. C. (HOMO-ANA) PIN JACK	DTC323TK-X DTC14EK-X 25A1162/YG/-X DTC323TK-X TC9471F NN1382/Q/-X BA4558F-X TC4058F/N/-XE TDA73150 BA4558F-X BA4558F-X CH00294-001	Q0451-52 Q0453 Q0501 Q0502-03 I C ICO101 ICO102 ICO201-03 ICO401 ICO401 ICO401 ICO401 ICO401 ICO401 ICO401 ICO401 ICO401 ICO51-53 ICO501
				DIGI. TRANSISTOR DIGI. TRANSISTOR DIGI. TRANSISTOR DIGI. TRANSISTOR I.C. (DIGI-HOS) I.C. (MONG-MAA) I.C. (HOMO-MAA) I.C. (DIGI-HOS) I.C. (DIGI-OTHER) I.C. (DIGI-OTHER) I.C. (HOMO-AMA) I.C. (HOMO-AMA) I.C. (HOMO-AMA) I.C. (HOMO-AMA) I.C. (HOMO-AMA) I.C. (HOMO-AMA)	DTC323TK-X DTC144EKA-X 25A1162/YGf-X DTC323TK-X TC9471F MN1382/Qf-X BA4558F-X TC40528F/M-XE TDA7315D TDA7315D TDA7315D ER S QNM0294-001 QNM0294-001 QNM0296-002	00451-52 00453 00453 00501 00502-03 I C IC0101 IC0301 IC0301 IC0451-53 IC0501 O T H E
				DIGI. TRANSISTOR DIGI. TRANSISTOR DIGI. TRANSISTOR DIGI. TRANSISTOR I. C. (DIGI-MOS) I. C. (MOMO-ANA) I. C. (MOMO-ANA) I. C. (UIGI-MOS) I. C. (UIGI-OTHER) I. C. (UIGI-OTHER) I. C. (MOMO-ANA) I. C. (MOMO-ANA) I. C. (MOMO-ANA) I. C. (MOMO-ANA) I. D. C. (MOMO-ANA) PIN JACK PUSH TERRINAL BEADS CORE	DTC323TK-X DTC144EA-X 25A1162/YG/-X DTC323TK-X TC9471F NN1382/Q/-X 8A4558F-X TC40528F/N/-XE TDA7315D	Q0451-52 Q0453 Q0501 Q0502-03 I ← C0101 IC0102 IC0201-03 IC0301 IC0401 IC0431 IC0431-53 IC0501
-				DIGI. TRANSISTOR DIGI. TRANSISTOR DIGI. TRANSISTOR DIGI. TRANSISTOR I.C. (DIGI-HOS) I.C. (MONG-MAA) I.C. (HOMO-MAA) I.C. (DIGI-HOS) I.C. (DIGI-OTHER) I.C. (DIGI-OTHER) I.C. (HOMO-AMA) I.C. (HOMO-AMA) I.C. (HOMO-AMA) I.C. (HOMO-AMA) I.C. (HOMO-AMA) I.C. (HOMO-AMA)	DTC323TK-X DTC144EKA-X 25A1162/YGf-X DTC323TK-X TC9471F MN1382/Qf-X BA4558F-X TC40528F/M-XE TDA7315D TDA7315D TDA7315D ER S QNM0294-001 QNM0294-001 QNM0296-002	00451-52 00453 00453 00501 00502-03 I C IC0101 IC0301 IC0301 IC0451-53 IC0501 O T H E

Δ	Symbol No.	Part No.	Part Mame	Description	Loca
	RES	STOR			
	R0020	MRSA02J-472X	MG R	4.7kΩ 1/10₩ J	,
	R0021	NRSA02J-122X	MG R	1.2kQ 1/10W J	-
	R0022	MRSA02J-331X	MG R	330Ω 1/10W J	
	R0023	MRSA02J-680X	MG R	68Ω 1/10W J	
			MG R		1
	R0024	NRSA02J-330X			
	R0025	MRSA02J-222X	MG R	2.2kΩ 1/10W J	1
	R0026	MRSA02J-122X	MG R	1.2kΩ 1/10W J	•
	R0027-28	MRSA02J-OROX	MG R	0.0Ω 1/10₩ J	,
	R0030-31	MRSA02J-150X	MG R	15Ω 1/10W J	
	R0050-51	MRSA02J-121X	MG R	120Ω 1/10W J	
	R0052-53	MRSA02J-561X	MG R	560Ω 1/10W J	- 1
	R0057	NRSA02J-472X	MG R	4.7kΩ 1/10W J	
	R0058	MRSA02J-272X	MG R	2.7kΩ 1/10W J	1
	R0059	MRSA02J-273X	MG R	27kΩ 1/10₩ J	
	R0060-61	MRSA02J-471X	MG R	470Q 1/10W J	
	R0062	MRSA02J-102X	MG R	1kQ 1/10W J	4
	R0063	WRSA02J-822X	MG R	8.2kQ 1/10W J	
	R0064	MRSA02J-OROX	MG R	0.0Q 1/10W J	1
	R0065	MRSA02J-470X	MG R	47Ω 1/10W J	
	R0070-71	MRSA021-393X	MG R	39kΩ 1/10W J	- 1
			. MG R		
	R0080-81	MRSA02J-473X		47kΩ 1/10W J	
	R0082	NRSA02J-272X	MG R	2.7kQ 1/10W J	1
	R0101 R0102	MRSA02J-822X MRSA02J-471X	MG R MG R	8.2kΩ 1/10W J 470Ω 1/10W J	
			-		
	R0103	NRSA02J-102X	MG R	1kΩ 1/10W J	
	R0104	MRSA02J-121X	MG R	1200 1/10W J	,
	R0105	MRSA02J-151X	MG R	150Ω 1/10W J	1
	R0106	NRSA02J-181X	MG R	180Ω 1/10W J	- 1
	R0107	NRSA02J-221X	MG R	220Q 1/10W J	- 1
	R0108	NRSA02J-102X	MG R	1kQ 1/10W J	1
	R0109	NRSA02J-181X	MG R	180Ω 1/10W	4
	R0111-12	NRSA02J-151X	MG R	150Ω 1/10W J	4
	R0113	MRSA02J-391X	MG R	390Ω 1/10W J	1
	R0114	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
	R0116	MRSA02J-102X	HG R	1kQ 1/10W	
	R0117	MRSA02J-332X	MG R	3.3kQ 1/10W J	-
	R0120-24	MRSA02J-103X	MG R	10kΩ 1/10W J	4
	R0140	NRSA02J-474X	MG R	470kΩ 1/10W J	1
	R0141	MRSA02J-101X	MG R	100Ω 1/10W	
	R0142	NRSA02J-391X	MG R	390Ω 1/10W J	1
	R0143	MRSA02J-750X	MG R	75Ω 1/10W J	
	R0144	NRSA02J-474X	HG R	470kΩ 1/10W J	1
	R0145	MRSA02J-332X	MG R	3.3kQ 1/10W J	
	R0146	NRSA02J-104X	MG R	100kΩ 1/10W J	
	R0601	MRSA02J-822X	MG R	8.2kQ 1/10W J	
	R0602	MRSA02J-102X	MG R	1kQ 1/10W J	- 4
	R0603	MRSA02J-104X	MG R	100kQ 1/10W J	
	R0604	MRSAUZJ-1U4X	MG R	68kΩ 1/10W 3	- 1
	R0605-06	NRSAO2J-392X	MG R	3.9kΩ 1/10W J	
	R0607-08	NRSA02J-562X	MG R	5.6kQ 1/10W J	- 1
					- :
7	R0609	QRZ9017-470	FUSI.RESISTOR	47 Ω 1/4W J	•
_	CAPA	CITOR	<u> </u>		
	C0020-25	NCB21HK-472X	C CAP.	4700pF 50V K	
	C0030	MRSA02J-OROX	MG R	0.0Ω 1/10W J	- 1
	C0040	NCB21HK-682X	C CAP.	6800pF SOV K	
	C0041	QETN1CH-107Z	E CAP.	100µF 16V H	
	C0042	MCB21HK-103X	C CAP.	0.01µF 50V K	
	C0043	QETN1CH-107Z	E CAP.	100µF 16V M	
	C0044 C0045	NCB21HK-103X NCB21HK-472X	C CAP. C CAP.	0.01µF 50V K 4700pF 50V K	

C0046 C0047 C0050 C0051 NCB21HK-103X QETN1CM-227Z QETN1HM-105Z NCB21HK-472X C CAP. E CAP. E CAP. C CAP. 0.01µF 50V K *
220µF 16V H *
1µF 50V H *
4700pF 50V K *

50

Lo	ion		DC3	Part Name	Part No.	Symbol No.
					ACITOR	CAP
	J	50V	6.0pF	C CAP.	NDC21HJ-6R0X	CANES
	K	50V	0.01µF	C CAP.	NCB21HK-103X	C0053
						C0054
	H	167	100μF	E CAP.	QETN1CM-1072	C0055
	Ħ	50V	0.47µF	E CAP.	QETN1HM-474Z	C0056
	J	50V	1000pF	C CAP.	NDC21HJ-102X	C0057
	K	50V	4700pF	C CAP.	NCB21HK-472X	C0058
	j	50V	12pF	C CAP.	NDC21HJ-120X	C0060
	j	50V	7.0pF	C CAP.	NDC21HJ-7ROX	C0061
	Ħ	50V	0.475	E CAP.	QETN1HM-474Z	cooca
	K	50V	0.47μF 0.01μF	C CAP.	NCB21HK-103X	C0062 C0063
	K	50V	4700pF	C CAP.	NCB21HK-472X	C0064
	Ħ	50V	1µF	E CAP.	QETN1HM-105Z	C0065
	j	50V	12pF	C CAP.	NDC21HJ-120X	C0067
	K	50V	0.01µF	C CAP.	NCB21HK-103X	C0069-70
	50V	μF !	33	E CAP.	QETN1HM-336Z	C0071
	K	50V	4700pF	C CAP.	NCB21HK-472X	C0080-81
	Ħ	16V	47µF	E CAP.	QETN1CM-476Z	C0101
	j	50V	220pF	C CAP.	MDC21HJ-221X	C0102
	J	50V	120pF		NDC21HJ-121X	C0103-04
	K	50V	0.01µF	C CAP.	NCB21HK-103X	C0105
	Ħ	50V	3.3µF	E CAP.	QETN1HM-335Z	C0140
	J	50V	560pF	C CAP.	NDC21HJ-561X	C0141
	H	50V	1µF	E CAP.	OETN1HM-105Z	C0142
	ï	50V	0.068µF	H CAP.	QFLC1HJ-683Z	C0143
	В	50V	3.3µF	E CAP.	QETN1HM-335Z	C0144
		50V				
	K		2200pF		MCB21HK-222X	C0145
	j	50V	0.018µF	H CAP.	QFLC1HJ-183Z	C0601
	Ħ	16V	47µF	E CAP.	QETN1CH-476Z	C0602
	Ħ	50V	10µF	E CAP.	QETN1HH-106Z	C0603
	H	50V	1μF	E CAP.	QETN1HM-105Z	C0604
	Ä	160	470µF	E CAP.	QETN1CM-477Z	C0605
	K	50V	0.01µF	C CAP.	NCB21HK-103X	C0606
				FR	NSEORM	TRAI
					NSFORM	
				I.F.TRANSF.	QQR0626-001	T0020
				I.F.TRANSF. C.WAVE TRANSF.	QQR0626-001 CELT001-307	T0020 T0050
				I.F.TRANSF.	QQR0626-001	T0020
			J. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	I.F.TRANSF. C.WAVE TRANSF.	QQR0626-001 CELT001-307 CELT001-306	T0020 T0050
	7uH	0.41		I.F.TRANSF. C.MAVE TRANSF. C.MAVE TRANSF.	QQR0626-001 CELT001-307 CELT001-306	T0020 T0050 T0051
	7µH	0.47		I.F.TRANSF. C.WAVE TRANSF. C.WAVE TRANSF.	QQR0626-001 CELT001-307 CELT001-306	T0020 T0050 T0051
	μН	1.!		I.F.TRANSF. C.MAVE TRANSF. C.WAVE TRANSF. PEAKING COIL	QQR0626-001 CELT001-307 CELT001-306	T0020 T0050 T0051
	μH μH	1.!		I.F. TRANSF. C. HAVE TRANSF. C. HAVE TRANSF. PEAKING COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QUZ014-R47 NQC0114-R47 NQC0114-1R5X NQC024J-120X	T0020 T0050 T0051 COIL L0020 L0021 L0040
	μН !μН !μН	1.!		I.F.TRANSF. C.HAVE TRANSF. C.HAVE TRANSF. PEAKING COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 NQL011K-1R5X NQL024J-120X NQL024J-330X	T0020 T0050 T0051 COIE
	μH LμH LμH	1. 1. 3. 8.		I.F. TRANSF. C. MAVE TRANSF. C. MAVE TRANSF. PEAKING COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 NQL011K-1R5X HQL024J-120X NQL024J-330X NQL024J-330X NQL011K-8R2X	T0020 T0050 T0051 T0051 COIL L0020 L0021 L0040 L0042 L0050-53
	111111	1. 1. 3. 8.		I.F.TRANSF. C.NAVE TRANSF. C.NAVE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 NQL011K-1R5X NQL024J-120X NQL024J-330X NQL011K-8R2X NQL024J-330X	T0020 T0050 T0051 T0051 L0020 L0021 L0040 L0042 L0050-53 L0054
	111111	1. 1. 3. 8.		I.F. TRANSF. C. MAVE TRANSF. C. MAVE TRANSF. PEAKING COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 NQL011K-1R5X HQL024J-120X NQL024J-330X NQL024J-330X NQL011K-8R2X	T0020 T0050 T0051 T0051 COIL L0020 L0021 L0040 L0042 L0050-53
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. 1. 3. 8.		I.F.TRANSF. C.NAVE TRANSF. C.NAVE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 NQL011K-1R5X NQL024J-120X NQL024J-330X NQL011K-8R2X NQL024J-330X	T0020 T0050 T0051 T0051 L0020 L0021 L0040 L0042 L0050-53 L0054
		1.! 3: 8.7 3: 5.6 6.8		I.F. TRANSF. C. MAYE TRANSF. C. MAYE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 WQL0118-1R5X WQL241-120X WQL0241-330X WQL0241-330X WQL0241-330X WQL0241-330X WQL0241-330X WQL0241-368X WQL0241-568X	T0020 T0050 T0051 COII L0020 L0021 L0040 L0042 L0050-53 L0054 L0070 L0101
	######################################	1.! 3: 8.7 3: 5.6 6.8		I.F. TRANSF. C. MAVE TRANSF. C. MAVE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 (ELT001-307 CELT001-306 QQLZ014-R47 NQL011K-1R5X NQL0241-330X NQL0214-330X NQL0214-330X NQL011K-8R5X	T0020 T0050 T0051 L0020 L0021 L0040 L0042 L0050-53 L0054 L0070
	######################################	1.! 3: 8.: 3: 5.6 6.8		I.F. TRANSF. C. MAVE TRANSF. C. MAVE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 MQL011K-1R5X MQL0214-120X MQL024-120X MQL024-330X MQL024-330X MQL011K-5R6X MQL011K-5R6X MQL011K-5R6X MQL011K-5R6X	T0020 T0050 T0051 COII L0020 L0020 L0040 L0042 L0054 L0070 L0101 L0102-03
	######################################	1.! 3: 8.: 3: 5.6 6.8		I.F. TRANSF. C. MAVE TRANSF. C. NAVE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 NQL011K-1R3X NQL024-120X NQL0214-330X NQL011K-8R2X NQL024-330X NQL011K-6R8X NQL011K-6R8X NQL011K-6R8X	T0020 T0051 COII L0020 L0021 L0040 L0040 L0040 L0054 L0050 L0070 L0101 L0102-03 L0104
	######################################	1.! 3: 8.: 3: 5.6 6.8		I.F. TRANSF. C. MAVE TRANSF. C. MAVE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 MQL011K-1R5X MQL0214-120X MQL024-120X MQL024-330X MQL024-330X MQL011K-5R6X MQL011K-5R6X MQL011K-5R6X MQL011K-5R6X	T0020 T0050 T0051 COII 10020 10021 10040 10040 10040 10050-53 10054 10070 10101 10102-03 10104 DIOI 10020-21
	######################################	1.! 3: 8.: 3: 5.6 6.8		I.F. TRANSF. C. MAYE TRANSF. C. MAYE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 RQL0118-1R5X RQL0241-120X RQL0241-330X RQL0118-8R2X RQL011K-6R8X RQL011K-6R8X RQL011K-6R8X RQL011K-8R2X	T0020 T0050 T0051 COII L0020 L0020 L0021 L0040 L0054 L0070 L0101 L0102-03 L0104 DIO2-03 L0104 DO020-21 L00050-51
	######################################	1.! 3: 8.: 3: 5.6 6.8		I.F. TRANSF. C. MAYE TRANSF. C. MAYE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 RQL0118-1R5X RQL0241-120X RQL0241-330X RQL0118-8R2X RQL011K-6R8X RQL011K-6R8X RQL011K-8R2X PQL011K-8R2X RQL011K-8R2X PQL011K-8R2X PQL011K-8R2X PQL011K-8R2X PQL011K-8R2X	T0020 T0050 T0051 COII L0020 L0020 L0021 L0040 L0054 L0070 L0101 L0102-03 L0104 DIO2-03 L0104 DO020-21 L00050-51
	######################################	1.! 3: 8.: 3: 5.6 6.8		I.F. TRANSF. C. MAYE TRANSF. C. MAYE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 MQL0118-185X MQL0244-120X MQL0244-120X MQL0214-330X MQL0218-586X MQL0118-586X MQL0118-100X MQL0118-	T0020 T0050 T0051 COII 10020 10021 10020 10020 10020 10020 10020 10101 10102-03 10104 DIOE TRAN 00012
	######################################	1.! 3: 8.: 3: 5.6 6.8		I.F. TRANSF. C. MAVE TRANSF. C. MAVE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQL7014-R47 RQL011K-1R5X RQL0214-330X RQL011K-8R3X RQL011K-5R6X RQL011K-5R6X RQL011K-6R8X RQL011K-6R8X RQL011K-8R2X QL011K-8R2X QL011K-8R2X QL011K-8R2X QL011K-7 ZSC2012/FG-7 ZSC2012/FG-7	T0020 T0050 T0051 COII 10020 10021 10042 10054 10050-53 10070 10101 10102-03 10104 DIOI TRAN
	######################################	1.! 3: 8.: 3: 5.6 6.8		I.F. TRANSF. C. MAYE TRANSF. C. MAYE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 RQL0118-1R5X RQL0241-120X RQL0241-120X RQL0218-330X RQL0118-8R3X RQL0118-5R6X RQL0118-5R6X RQL0118-6R8X RQL0118-6R8X RQL0118-8R2X DAN235K-X DAN235K-X DAN235K-X DAN235K-X DAN235K-X DAN235K-X	T0020 T0050 T0051 COII 10020 10021 10020 10021 10040 10050-53 10054 10070 10101 10102-03 10104 DIOCO DOCO-21 1000050-51 TRAN 00012 00080
	######################################	1.! 3: 8.: 3: 5.6 6.8		I.F. TRANSF. C.MAVE TRANSF. C.MAVE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 RQL011K-1R5X RQL0241-120X RQL0214-330X RQL011K-8R2X RQL011K-5R6X RQL011K-5R6X RQL011K-5R6X RQL011K-5R6X RQL011K-5R6X RQL011K-5R6X RQL011K-5R5X RQL011K-	T0020 T0050 T0051 COII 10020 10021 10042 10054 10070 10010 10010 10102-03 10104 DIOI TRAN Q0012 Q0080 Q0101 Q0102
	######################################	1.! 3: 8.: 3: 5.6 6.8		I.F. TRANSF. C. MAYE TRANSF. C. MAYE TRANSF. PEAKING COIL COIL COIL COIL COIL COIL COIL COIL	QQR0626-001 CELT001-307 CELT001-306 QQLZ014-R47 RQL0118-1R5X RQL0241-120X RQL0241-120X RQL0218-330X RQL0118-8R3X RQL0118-5R6X RQL0118-5R6X RQL0118-6R8X RQL0118-6R8X RQL0118-8R2X DAN235K-X DAN235K-X DAN235K-X DAN235K-X DAN235K-X DAN235K-X	T0020 T0050 T0051 COII 10020 10021 10020 10021 10040 10050-53 10054 10070 10101 10102-03 10104 DIOCO DOCO-21 1000050-51 TRAN 00012 00080

١	Symbol No.	Part No.	Part Name	Description	rocs.
	TRAN	SISTO	R		
	00106	25C2712/YG/-X	SI.TRANSISTOR		
	00107	25A1162/YG/-X	SI.TRANSISTOR		
	00108	DTC144EKA-X	DIGI.TRANSISTOR		
	00109-11	25C2712/YG/-X	SI.TRANSISTOR		
	00120-26	DTC144EKA-X	DIGI.TRANSISTOR		
	Q0601-02	25C2712/YG/-X	SI.TRAMSISTOR		١
-	IC				
	100010	TA8865BN	I.C.(MONO-ANA)		
_	ОТНЕ	ERS			_
	CF0010-11	FTP40.40MF	CERAMIC FILTER		
	CF0100	TPS5.5MW	CERAMIC FILTER		
	CF0140	CSB503F30-T2	CER.RESONATOR		
	SF0010	QAX0531-001	SAW FILTER		
	SF0011	CE42574-702	SAW FILTER		
	SF0012	QAX0574-001	SAN FILTER	50-P 10M/	
	TC0052	QAT7004-100	TRIM. CAP.	10pF 100V	
	TC0059	QAT7004-100	TRIM. CAP.	10pF 100V	
	W0008	NRSA02J-OROX	MG R	0.00 1/10W J	
	W0013	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
	W0015	NRSA02J-OROX	MG R	0.00 1/10W J	
	W0025-26	NRSA02 J-OROX	MG R	0.00 1/10W J	
	W0028-29	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
	W0031-32	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
	W0036	MRSA02J-OROX	MG R	0.0Ω 1/10W J	
	W0073-75	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
	W0094-99	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
	Y0002	NRSA02J-OROX	MG R	0.0Ω 1/10W J	

Δ	Symbol No.	Part No.	Part Name	Des	cripti	ion	Loca
_	RESI	STOR					
	R0104	ORE141J-750Y	C R		1/4W	j	
	R0106	QRE141J-750Y	C R	75Ω	1/4W	J	
	R0108	ORE141J-750Y	CR	75Ω	1/4W	J	
	R0112	ORE141J-750Y	C R	75Ω	1/4W	J	
	R0204	ORE141J-750Y	C R	75Ω	1/4W	J	
	R0304	QRE141J-750Y	C R	75Ω	1/4W	J	
_	CAPA	ACITOR					
	C0102-04	OEKC1CM-106Z	E CAP.	10µF	16V	Ħ	
	C0105-08	QCB31HK-472Z	C CAP.	4700pF	50V	K	
	C0109	OETNIAM-108Z	E CAP.	1000µF	10V	М	
	C0202	OCB31HK-103Z	C CAP.	0.01µF	50V	K	
	C0203-06	OCB31HK-472Z	C CAP.	4700pF	50V	K	
	C0209	OETHIAM-108Z	E CAP.	1000uF	100	- 8	
	C0302	OCB31HK-103Z	C CAP.	0.01uF	50V	K	
	C0305-06	QCB31HK-472Z	C CAP.	4700pF	50V	K	
_	COI	_					
	L0101-04	OOL211K-5R6Y	COIL		5.	6µН	
	L0105	QQR0716-001Z	LEAD CORE				
	L0201-04	QQL211K-5R6Y	COIL		5.	бμН	
	L0205	QQR0716-001Z	LEAD CORE				
	L0301-02	QQL211K-5R6Y	COIL		5.	биН	
	L0303	QQR0716-001Z	LEAD CORE				
_	DIO	DE			-		
	D0101-04	MTZJ138-T2	ZENER DIODE				
_	отні	ERS				_	
	CN0008 J0001-03	CHA401N-35R-J CE40529-006	HQF CONNECTOR SCART CONNECTOR				

SUB MICON & AUTO PANORAMA PW BOARD ASS'Y (SMD0W001A-U2) ▲ Symbol No. Part No. Description Local RESISTOR

	R0001	NRSA02J-101X	MG R	100Ω 1/10W	J	
	R0002	NRSA02J-104X	MG R	100kΩ 1/10W	J	*
	R0003	NRSA02J-393X	MG R	39kΩ 1/10W	J	
	R0004	NRSA02J-332X	MG R	3.3kΩ 1/10W	j	
	R0005-07	NRSA02J-102X	MG R	1kΩ 1/10W	J	
	R0008	MRSA02J-472X	MG R	4.7kΩ 1/10W	j	
	R0009	NRSA02J-331X	MG R	330Ω 1/10W	J	
	R0010	NRSA02J-102X	MG R	1kΩ 1/10W	j.	
	R0011	NRSA02J-332X	MG R	3.3kΩ 1/10W	j	
	R0012	NRSA02J-272X	MG R	2.7kΩ 1/10W	J	
	R0020-26	NRSA02J-102X	MG R	1kΩ 1/10W	J	*
	R0045	NRSA02J-472X	MG R	4.7kΩ 1/10₩	j	
	R0051	NRSA02J-472X	MG R	4.7kΩ 1/10W	J	
	R0054	NRSA02J-103X	MG R	10kΩ 1/10W	J	
	R0060	NRSA02J-823X	MG R	82kΩ 1/10W	j	
	R0751	NRSA02J-102X	MG R	1kΩ 1/10V	j	•
	R0752-57	NRSA02J-103X	MG R	10kΩ 1/10W	J	1
	R0758	NRSA02J-472X	MG R	4.7kΩ 1/10W	J	
	R0759-60	MRSA02J-103X	MG R	10kΩ 1/10W	J	
	R0761-66	NRSA02J-822X	MG R	8.2kΩ 1/10₩	j	
_						

CAPACITOR

C0001	NENSIAM-336X	CHIP AL BP E CAP	33µF	10V	Ħ	
C0002	NDC21HJ-221X	C CAP.	220pF	50V	j	
C0003	NDC21HJ-220X	C CAP.	22pF	50V	J	
C0004-05	NCB21HK-104X	CHIP CAP.	0.1µF	50V	K	
C0006	NEH71CH-476X	E CAP.	47uF	16V	М	
C0009	NEH71CH-106X	E CAP.	10uF	16V	Ħ	
C0010-11	NCB21HK-104X	CHIP CAP.	0.1µF	50V	K	
C0751	NEH71CH-476X	E CAP.	47µF	16V	Ħ	
C0752-57	NCB21HK-104X	CHIP CAP.	0.1μF	50V	K	

DIODE

D0005	MA3051/M/-X	ZEMER DIODE	
D0751	HA111-X	SI.DIODE	
D0752-53	HA3062/H/-X	ZENER DIODE	

TRANSISTOR

Q0003 25A3 Q0004-05 25C3	1037K/QR/-X SI.T 2412K/QR/-X SI.T	RAMSISTOR RAMSISTOR RAMSISTOR RAMSISTOR	
-----------------------------	--------------------------------------	--	--

IC			
IC0001	JCC5035	I C	
IC0002	MN1382/Q/-X	I.C.(MONO-ANA)	
IC0751	SAB-C161R1	1 (
100752	MX23C4000PC10MD	IC	
IC0753	AT24C16N-10SC	1 (

OTHERS

0			
X0001 X0751	CEMS007-032 CE42564-001Y QAX0534-001	IC SOCKET CER.RESONATOR C RESONATOR	

100Hz PW BOARD ASS'Y (SMD0Z002A-U2)

mbol No.	Part No.	Part Name	Description	Local	∆ Symbol No.	Part No.	Part Name	Description	L
RES	STOR				RESI	STOR			
001-02	NRSA02J-101X	MG R	100Ω 1/10₩ J	*	90183-84	MRSA02J-122X	MG R	1.2kΩ 1/10W J	
004	NRSA021-222X	MG R	2.2kΩ 1/10W J		20185	NRSA02F-392X	MG R	3.9kΩ 1/10W F	
005	NRSA02J-472X	MG R	4.7kΩ 1/10W J		R0186	NRSA02F-332X	MG R	3.3kΩ 1/10W F	
					90187	MRSA02J-101X	MG R	100Ω 1/10W J	
101	NRSA02J-101X	MG R	100Ω 1/10W J	*					
102	NR5A02J-102X	MG R	1kΩ 1/10W J		₹0188	WRSA02J-563X	MG R	56kΩ 1/10W J	
103	NRSA02J-331X	MG R	330Ω 1/10W J	*	R0189	NRSA02J-470X	MG R	47Ω 1/10W J	
104	NRSA02J-222X	MG R	2.2kΩ 1/10W J		R0190	MRSA02J-102X	MG R	1kΩ 1/10w j	
105	NRSA02J-473X	MG R	47kΩ 1/10W J		30191	MRSA02J-223X	MG R	22kΩ 1/10W J	
103	MR3AU23-4/3A	א טדו	4/K32 1/10W J	٠ ا		INCOMOZO ZEON	ING IX	22841 1/104 3	
106	NRSA02J-273X	MG R	27kΩ 1/10W J		R0192	NRSA02J-220X	MG R	22Ω 1/10W J	
107	NRSA02J-331X	MG R	330Ω 1/10W J		R0193	MRSA02J-104X	MG R	100kΩ 1/10W J	
108	NRSA02J-181X	MG R	180Ω 1/10₩ J		R0201-16	MRSA02J-101X	MG R	100Ω 1/10W J	
109-10	NRSA02J-101X	MG R	100Ω 1/10W J		R0221-36	NRSA02J-101X	MG R	100Ω 1/10W J	
111	NRSA02J-222X	MG R	2.2kΩ 1/10W J		R0303-18	NRSA02J-101X	MG R	100Ω 1/10W J	
				- :	20401	NRSA02J-103X	MG R	10kΩ 1/10W	
112	NRSA02J-101X	MG R	100Ω 1/10W J						
113	WRSA02J-471X	MG R	470Ω 1/10W J	*	R0403	NRSA02J-223X	MG R	22kΩ 1/10W J	
114	MRSA02J-221X	MG R	220Ω 1/10W J		R0404	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
121	NRSA02J-161X	MG R	100Ω 1/10W J		R0406	NRSA02J-102X	MG R	1kΩ 1/10W J	
122	MRSA02J-102X	HG R	1kΩ 1/10W J	- :	R0408	NRSA02J-561X	MG R	560Ω 1/10W J	
123	NRSA02J-331X	HG R		:	R0409	NRSA02J-102X	MG R	1kΩ 1/10W J	
			330Ω 1/10W J		R0411				
124	MRSA02J-222X	MG R	2.2kΩ 1/10W J	*		NRSA02J-OROX	MG R	0.0Q 1/10W J	
125	MRSA02J-473X	MG R	47kΩ 1/10W J		R0412	NRSA02J-561X	MG R	560Ω 1/10W J	
126	NRSA02J-273X	MG R	27kΩ 1/10W J		R0413	MRSA02J-101X	MG R	100Ω 1/10W J	
127	NRSA02J-271X	MG R	270Ω 1/10W J		R0415	MRSA02J-151X	MG R	150Ω 1/10W J	
128	NRSA02J-181X	MG R	180Ω 1/10W J		R0417	NRSA02J-102X	MG R	1kΩ 1/10W J	
129		WC 0		_	R0418	NRSA02J-220X	MG R	22Ω 1/10W J	
130	NRSA02J-101X NRSA02J-330X	MG R	100Ω 1/10W J	:	R0419	NRSA02J-220X NRSA02J-101X	MG R	22Ω 1/10W J 100Ω 1/10W J	
		MG R	33Ω 1/10W J						
31	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*	R0420	NRSA02J-471X	NG R	470Ω 1/10W J	
132	MRSA02J-101X	MG R	100Ω 1/10W J	*	R0425	MRSA02J-OROX	MG R	0.0Ω 1/10W J	
133	MRSA02J-471X	MG R	470Ω 1/10W J		R0426	NRSAO2J-122X	MG R	1.2kΩ 1/10W J	
134	NRSA02J-221X	MG R	220Q 1/10W J		R0428	NRSA02F-472X	MG R		
141	NRSA02J-101X			- :	R0429	NRSA02F-333X	MG R	4.7kΩ 1/10W F 33kΩ 1/10W F	
142	MRSA02J-101X MRSA02J-102X	MG R	100Ω 1/10W J 1kΩ 1/10W J	:	R0431	NRSA02J-GROX	MG R	0.0Ω 1/10W J	
176	4W3U053.105W	MG R	1kΩ 1/10W J	'					
143	MRSA02J-331X	MG R	330Ω 1/10W J		R0432	NRSA02J-561X	MG R	5600 1/10W J	
144	MRSA02J-222X	MG R	2.2kΩ 1/10W J	*	R0433	NRSA02J-101X	MG R	100Ω 1/10W J	
145	MRSA02J-473X	MG R	47kQ 1/10W J		R0435	WRSA02J-151X	MG R	150Ω 1/10W J	
146		MG R			R0437	WRSA02J-102X	NG R	1kQ 1/10w J	
	MRSA02J-273X				30438	MRSA02J-220X	MG R	22Ω 1/10W J	
147	NRSA02J-271X	MG R	270Ω 1/10W J		R0439				
148	NRSA02J-181X	MG R	180Ω 1/10₩ J	*		NRSA02J-101X	MG R	100Ω 1/10W J	
149	NRSA02J-101X	MG R	100Ω 1/10₩ J		R0440	MRSA02J-471X	MG R	470Ω 1/10W J	
50	MRSA02J-150X	HG R	15Ω 1/10W J		R0441	NRSA02J-122X	MG R	1.2kΩ 1/10W J	
151	NRSA02J-222X	MG R	3 360 1/106 4		R0442	NRSA02F-472X	MG R	4.7kΩ 1/10W F	
			2.2kΩ 1/10W J		R0443	NRSA02F-333X	MG R	33kΩ 1/10W F	
.52	NRSA02J-101X	MG R	100Ω 1/10W J	*	R0451				
.53	NR5A02J-471X	MG R	470Ω 1/10W J	*		NRSA02J-OROX	MG R	0.0Ω 1/10W J	
54	NRSA02J-221X	MG R	220Ω 1/10W J	*	R0452	MRSA02J-561X	MG R	560Ω 1/10₩ J	
.55	NRSA02J-100X	MG R	10Ω 1/10W J		R0453	MRSA02J-101X	MG R	100Ω 1/10W J	
.56	MRSA02J-122X	MG R	1.2kΩ 1/10W J		R0455	NRSA02J-151X	MG R	150Q 1/10W J	
57	NRSA02J-560X	MG R	56Ω 1/10W J	:	R0457	WRSA02J-102X	MG R	1kΩ 1/10W J	
58	NRSA02J-680X	MG R	68Ω 1/10₩ J		R0458	MRSA02J-220X	MG R	22Ω 1/10W J	
					R0459	MDCAAT L. 101V	MC 0	1000 1/104	
59	NRSA02J-101X	MG R	100Ω 1/10W J	*	R0459	NRSAO2J-101X NRSAO2J-471X	MG R MG R	100Ω 1/10W J	
60	MRSA02J-333X	MG R	33kΩ 1/10₩ J	*				470Ω 1/10W J	
61	MRSA02J-223X	MG R	22kΩ 1/10W J		R0461	NRSA02J-122X	MG R	1.2kΩ 1/10W J	
62	NRSA02J-122X	MG R	1.2kΩ 1/10W J		R0462	NRSA02F-472X	MG R	4.7kΩ 1/10W F	
63	NRSA02J-181X	MG R			R0463	NRSA02F-333X	MG R	33kΩ 1/10W F	
64	MOCTUST COOK				R0471	MRSA02J-OROX	MG R	0.0Ω 1/10W	
	NRSA02J-680X	MG R	68Ω 1/10W J		R0472	MRSA02J-391X	MG R	390Ω 1/10W J	
65 71	NRSA02J-OROX	MG R	0.0Ω 1/10W J	*	R0473	NRSA02J-101X	MG R	100Ω 1/10W J	
/1	NRSA02J-101X	MG R	100Ω 1/10W J	•					
72	NRSA02J-102X	MG R	1kΩ 1/10W J		R0475 R0476	NRSA02J-330X	MG R	33Ω 1/10W J	
73	MRSA02J-182X	MG R	1.8kΩ 1/10W J	*		NRSA02J-122X	MG R	1.2kΩ 1/10W J	
74	MRSA02J-560X	MG R	56Ω 1/10W J	*	20477	NRSA02J-102X	MG R	1kΩ 1/10W J	
75	NRSA02J-105X	MG R	1MΩ 1/10W J		R0478	NRSA02J-220X	MG R	22Ω 1/10W J	
76	NRSA02J-681X	MG R			R0479	NRSA02J-101X	MG R	100Ω 1/10W J	
					R0480	NRSA02J-221X	MG R	220Ω 1/10W J	
77	NRSA02J-104X	MG R	100kΩ 1/10W J	*	30486	NRSA02J-683X	MG R	68kΩ 1/10W J	
78	MRSA02J-101X	MG R	100Ω 1/10W J	*	R0487	NRSA02J-103X	MG R	10kΩ 1/10W J	
79	NRSA02J-471X	MG R	470Ω 1/10W J				10 K	10KM 1/10W J	
80	NRSA02J-102X	MG R	1kΩ 1/10W J	.	R0488	NRSA02J-223X	MG R	22kΩ 1/10W J	
31-82	MRSA02F-392X	MG R	3.9kΩ 1/10W F		30489	NRSA02J-562X	MG R	5.6kΩ 1/10W J	
				1					

Symbol No.	Part No.	Part Name	Description Lo
RES	ISTOR		
R0491-92	NRSA02J-102X	MG R	1kΩ 1/10W J
R0501	NRSAO2J-473X	MG R	47kΩ 1/10W J
R0504	NRSAO2J-472X	MG R	4.7kΩ 1/10W J
R0505	WRSA02J-272X	MG R	2.7kΩ 1/10W J
R0506	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R0507	NRSA02J-OROX	MG R	0.0Ω 1/10W J
R0512	NRSA02J-103X	MG R	10kΩ 1/10W J
R0514-15	MRSA02J-682X	MG R	6.8kΩ 1/10W J
R0516	NRSA02J-OROX	MG R	0.0Ω 1/10W J
R0602-03	NRSA02J-680X	NG R	68Ω 1/10W J
R0604	QRN143J-221X	C R	220Q 1/4W J
R0606	NRSA02J-680X	MG R	68Ω 1/10W J
R0607-08	WRSAOZJ-OROX	MG R	0.0Ω 1/10W J
R0609	MRSA02J-100X	MG R	10Ω 1/10W J
R0610	NRSA02J-OROX	MG R	0.0Ω 1/10W J
R0611	MRSA02J-100X	MG R	10Ω 1/10W J
R0612-13	NRSA02J-560X	MG R	56Ω 1/10W J
R0614	NRSA02J-100X	MG R	10Ω 1/10W J
R0615	WRSA02J-822X	MG R	8.2kΩ 1/10W J
R0616	NRSA02J-223X	MG R	22kΩ 1/10W J
R0704	NRSA02J-OROX	MG R	0.0Ω 1/10W J
R0705-06	MRSA02J-123X	MG R	12kΩ 1/10W J
R0708-09	NRSA02J-123X	MG R	12kΩ 1/10W J
R0714	NRSA02J-123X	MG R	12kΩ 1/10W J
R0715	MRSA02J-333X	NG R	33kΩ 1/10W J
R0716	MRSA02J-273X	MG R	27kΩ 1/10W J
R0717	NRSA02J-123X	MG R	12kΩ 1/10W J
R0718	MRSA02J-683X	MG R	68kΩ 1/10W J
R0719	NRSA02J-472X	MG R	4.7kQ 1/10W J
R0720-21	MRSA02J-123X	MG R	12kΩ 1/10W J
R0723	MRSA02J-682X	MG R	6.8kΩ 1/10W J
R0724	MRSA02J-272X	HG R	2.7kΩ 1/10W J
R0726	NRSA02J-563X	MG R	56kΩ 1/10W J
R0727	MRSA02J-224X	MG R	220kΩ 1/10W J
R0731	NRSA02J-OROX	MG R	0.0Ω 1/10W J
R0733	NRSA02J-154X	MG R	150kΩ 1/10W J
R0734	NRSA02J-123X	MG R	12kΩ 1/10W J
R0736	NRSA02J-123X	MG R	12kΩ 1/10W J
R0737	NRSA02J-224X	MG R	220kΩ 1/10W J
R0738	MRSA02J-273X	MG R	27kΩ 1/10W J
R0739	NRSA02J-153X	MG R	15kΩ 1/10W J
R0740	MRSA02J-682X	MG R	6.8kΩ 1/10W J
R0741	HRSA02J-223X	MG R	22kΩ 1/10W J
R0742	NRSA02J-224X	MG R	220kΩ 1/10W J
R0743	NRSA02J-683X	MG R	68kΩ 1/10₩ J
R0744	HRSA02J-224X	MG R	220kΩ 1/10W J
R0745	NRSA023-563X	MG R	56kΩ 1/10W J
R0746	NRSA02J-224X	HG R	220kΩ 1/10W J
CAP	ACITOR		
			47.5 100 #
C0001 C0002	NEH71CH-476X NCF21EZ-104X	E CAP. C CAP.	47μF 16V M 0.1μF 25V Z
C0002	NEH71CH-476X	E CAP.	47μF 16V M
C0003	NCF21EZ-104X	C CAP.	0.1µF 25V Z
C0005	NEH71CH-476X	E CAP.	47µF 16V M
C0005	NCF21EZ-104X	C CAP.	0.1µF 25V Z
C0007	NEH71CH-476X	E CAP.	47µF 16V M
C0008	NCF21EZ-104X	C CAP.	0.1µF 25V Z
C0009	NDC21HJ-121X	C CAP.	120pF 50V J
C0011	NOC21HJ-270X	C CAP.	27pF SOV J
C0102	NDC21HJ-121X	C CAP.	120pF SOV J
C0103	NDC21HJ-680X	C CAP.	68pF 50V J
C0104	NENSIEM-106X	CHIP AL BP E CAP	10µF 25V M
C0105	NCF21HZ-224X	C CAP.	0.22µF 50V Z
	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	NDC21HJ-390X	C CAP.	39pF 50V J
C0106 C0107			
C0107 C0108	NEH71CM-476X	E CAP.	47µF 16V M

		Part No.	Part Name	Description
C	APA	CITOR		
C01	09	NENS1HM-105X	CHIP AL BP E CAP	1μF 50V 1
C01		. NCB21HK-103X	C CAP.	0.01uF 50V
C01		NDC21HJ-181X	C CAP.	180pF 53V .
	12-14	NEH71CM-106X	E CAP.	10uF '6V
CO1		NDC21HJ-121X	C CAP.	120pF 50V .
C01	23	NDC21HJ-680X	C CAP.	68pF 50V .
C01		NEN51HM-105X	CHIP AL BP E CAP	1µF 50V
C01		NCF21HZ-224X	C CAP.	1μF 50V ! 0.22μF 50V
C01		MCF21EZ-104X	C CAP.	0.1µF 15V
CO1-		NDC21HJ-121X	C CAP.	120pF 30V .
C01	43	₩DC21HJ-680X	C CAP.	68pF 50V .
C01	44	MENS1HM-105X	CHIP AL BP E CAP	1μF 50V P
COL		NCF21HZ-224X	C CAP.	0.22µF 50V 2
C01		NCF21EZ-104X	C CAP.	0.1µF 25V 2
C01		MCB21HK-103X	C CAP.	0.01µF 50V 9
C01		QETNOJM-228Z	E CAP.	
C01	53 54-55	MCF21EZ-104X NEH71HM-105X	C CAP. E CAP.	0.1μF 35V 1 1μF 50V 1
		MCF21EZ-104X	C CAP.	
	56-57		C CAP.	0.1µF 35V 3
	61-62	MEH71CM-106X	E CAP. C CAP.	10µF 16V 1 0.1µF 15V
C01		NCF21EZ-104X	L LAP.	0.1µF 25V 2
COL	64 65-80	NEH71CM-106X NCF21EZ-104X	E CAP. C CAP.	10µF 16V ! 0.1µF 15V
	81-82	NDC21HJ-8ROX	C CAP.	8.0pF 50V
C01		NCF21EZ-104X	C CAP.	·
COI		NEH71CM-106X	E CAP.	10.E 15V 1
C01		WCB21HK-103X	C CAP.	0.01µF 53V
	01-02		E CAP.	470µF 6.3V
	03-07	NCF21EZ-104X	C CAP.	0.1µF 15V
	08-09	MDC21HJ-150X	C CAP.	15pF 30V .
	01-19	NCF21EZ-104X	C CAP.	
(04		MEH71CM-106X	E CAP.	0.1µF 25V 1 10µF 16V 1
C04	02	NCF21EZ-104X	C CAP.	0.1µF 25V 1 10µF 25V 1 0.1µF 25V 1
C04		WEH71CM-106X	E CAP.	10µF 15V
C04		MCF21EZ-104X	C CAP.	0.1uF 25V 2
	05-06	MDC21HJ-120X	C CAP.	12pF 50V
	08-13	NCB21HK-103X	C CAP.	0.01µF 50V
C04		NCF21EZ-104X	C CAP.	0.01µF 50V 1 0.1µF 15V
C04		NEH71HM-105X	E CAP.	1µF 50V
C04		NEH71CM-106X	E CAP.	10µF 15V
C04	17	MCF21EZ-104X	C CAP.	0.1μF 35V 3 1μF 50V 8
C04	20	MEH71HM-105X	E CAP.	1µF 50V 1
C04	22	MRSA02J-OROX	MG R	0.0Ω 1/10W .
C04	24	MEH71HM-105X	E CAP.	1μF 5 0V P
C04	25	NEH71CH-476X	E CAP.	47uF :6V !
C04	26	NCF21EZ-104X	C CAP.	0.1µF 25V 2
C04		NRSA02J-OROX	MG R	0.0Ω 1/10W .
C04	34	NEH71HM-105X	E CAP.	1μF 50V P
C04		NCF21EZ-104X	C CAP.	0.1μF 25V 1 0.0Ω 1 10W .
C04		MRSA02J-OROX	MG R	
C04		NEH71HM-105X	E CAP.	1μF 30V 1
C04		NCF21EZ-104X	C CAP.	0.1µF 25V 7
C04		NRSA02J-OROX	MG R	0.0Ω 1 10W
C04		NEH71HM-105X	E CAP.	int tow !
	75-76	NCF21EZ-104X	C CAP.	0.1µF 15V
C04	77	NDC21HJ-561X	C CAP.	560pF 30V .
COS		NCB21HK-333X	C CAP.	0.033µF 50V
C05		NCB21HK-562X	C CAP.	5600pF 50V 1
	05-06	NCB21HK-393X	C CAP.	0.039µF 50V F
C05		NDC21HJ-101X	C CAP.	100pF 50V
C06		NCF21EZ-104X	C CAP.	0.1µF 25V 2
C06		NEH71CM-476X	E CAP.	47µF 16V F 0.1µF 15V 7
C061		NCF21EZ-104X NCF21EZ-104X	C CAP. C CAP.	0.1μF 25V 2 0.1μF 25V 2
-	••			
06		MDC21HJ-681X	C CAP.	680pF 50V .
C071		MCB21HK-102X	C CAP.	1000pF 50V
	(III)	MCB21EK-154X	C CAP.	0.15µF 25V
C07		NCB21EK-104X	C CAP.	0.1µF 25V

TRANSISTOR

2SA1162/YG/-X 2SC2712/YG/-X

25A1162/YG/-X 25C2712/YG/-X

25A1162/YG/-X

25C2712/YG/-X

25A1162/YG/-X

25C2712/YG/-X

2SA1162/YG/-X 2SA1162/YG/-X 2SC2712/YG/-X 2SA1162/YG/-X

25C2712/YG/-X 25A1162/YG/-X 25C2712/YG/-X

25A1162/YG/-X

25C2712/YG/-X 25C2712/YG/-X

2SA1162/YG/-X

25C2712/YG/-X 25C2712/YG/-X 25C2712/YG/-X 25C2712/YG/-X 25A1162/YG/-X

25A1162/YG/-X

25C2712/YG/-X

25A1162/YG/-X

25C2712/YG/-X

25A1162/YG/-X

25C2712/YG/-X

25A1162/YG/-X

25C2712/YG/-X

SI.TRANSISTOR SI.TRANSISTOR

SI.TRANSISTOR SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR

SI.TRANSISTOR SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR

SI.TRANSISTOR

Q0101 Q0102 Q0103 Q0104 Q0105 Q0106-07

Q0111 Q0121 Q0122 Q0123 Q0124

00141

00142

Q0143

Q0144 Q0151-52

Q0153 Q0154 Q0155 Q0402 Q0403-05 Q0411

Q0412-15 Q0431

Q0432-35

Q0452-55

Q0472-74

Q0451

Symbol No.	Part No.	Part Name	Des	cript	ion	Loca.
CAP	ACITOR	2				
C0708	NCB21HK-103X	C CAP.	0.01µF	50V	K	
C0709	NCF21EZ-104X	C CAP.	0.1uF	25V	2	
C0710	NEH71CH-106X	E CAP.	10uF	16V	Ħ	
C0711	NCF21EZ-104X	C CAP.	0.1uF	25V	ž	
C0712	NEH71CM-106X	E CAP.	10uF	16V	H	
C0713	NCB21HK-473X	C CAP.	0.047μF	50V	K	
COI	L				-	
10001-05	NOLO2BJ-4R7X	COIL		4.3	7oH	
L0101	NQL011K-3R3X	COIL			3µH	
10121	NOLO11K-3R3X	COIL			ЗиН	·
L0141	NOLO11K-3R3X	COIL			Зин	
L0161	MCLO2BJ-100X	COIL)uH	
L0162	NOLOZBJ-3R3X	COIL			ВиН	
L0163-64	MOLOZBJ-100X	COIL)µH	
L0201-02	₩QL02BJ-100X	COIL			ЭμΗ	
L0301-02	NQL02BJ-4R7X	COIL		4.7	γμΗ	•
DIO	DE					
D0001	NA152WK-X	SI.DIODE				*
D0101-02	MA3068/H/-X	ZENER DIODE				*
D0103	NA3043-X	ZENER DIODE				
D0104-05	MA111-X	SI.DIODE				
D0106	MA3068/M/-X	ZEMER DIODE				
D0107	MA111-X	SI.DIODE				
D0401	MA111-X	SI.DIODE				
D0403-10	MA3068/H/-X	ZENER DIODE				
D0411-13	MA111-X	SI.DIODE				
D0414	MA3068/H/-X	ZENER DIODE				
	MA111-X	SI.DIODE				

Symbol No.	Part No.	Part Name	Description Loca
TRA	NSISTO	R	
Q0501 Q0601 Q0702	2SC2712/YG/-X 2SC2712/YG/-X 2SC2712/YG/-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR	
ıc			
IC0101 IC0102 IC0201 IC0301 IC0401 IC0601 IC0602 IC0603	SDA9206 TC4W66F-X SDA9400 JCCS043 DDP3310B/D3-W SN74LY04ANS-X TC74AC00F-X MN1382/Q/-X	I C I.C.(DIGI-MOS) I C I C I C I C I.C.(DIGI-MOS) I.C.(MONO-AMA)	
IC0701-02	NJM4556AM-XE	10	
отн	ERS	 	
LC0001-04 LC0101-03 LC0104 LC0201 LC0401-11 LC0601 LC0602 LC0603	CE42482-103Y CE42482-470Y CE42126-101Y CE42482-103Y CE42126-101Y CE42126-101Y CE422482-470Y CE42126-101Y	EMI FILTER	
X0101 X0201 X0401 Y0001-14 Y0017-28	QAX0549-001Z QAX0359-001Z QAX0548-001Z HRSA02J-0ROX NRSA02J-0ROX	X TAL CRYSTAL X TAL MG R MG R	0.0Ω 1/10W j s 0.0Ω 1/10W j s

AV-28WZ4EP / AV-28WZ4EPS

PRINTED WIRING BOARD PARTS LIST

			ACCIV	CHAD .	1003A-U	21
MAIN	PW R)AKI)	ASS'Y	ISMD-	1003A-0	4

rmbol No.	Part No.	Part Name	Description Local	▲ Symbol No.	Part No.	Part Name	Description	LUCA
RESI	STOR			RES	STOR			
	W05403 : 103V	MG R	10kΩ 1/10W J *	R1218	NRSA02J-333X	MG R	33kΩ 1/10W J	
1002	NRSA02J-103X		1kΩ 1/10W J *	R1219	NRSA02J-823X	MG R	82kΩ 1/10W J	
1003-06	NRSA02J-102X	MG R	1K12 1/10W J	R1220	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
1101-03	NRSA02J-102X	MG R	1kΩ 1/10W J *		MRSAUZJ-URUA		390Ω 1:10W J	
1104	NRSA02J-681X	MG R	680Ω 1/10W J *	R1221	NRSA02J-391X	MG R		
1105	NRSA02J-392X	MG R	3.9kQ 1/10W J *	R1222	NRSA02J-823X	MG R	82kΩ 1/10₩ J	
1105			390Ω 1/10W J *	R1223	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
1107	NRSA023-391X	MG R		R1224	NRSA02J-391X	MG R	390Ω 1/10W J	
1108	NRSA023-102X	MG R	1kΩ 1/10W J *				22kΩ 1/10W J	
1109	NRSA02J-103X	MG R	10kΩ 1/10W J *	R1225-26	MRSA02J-223X	MG R	22Kt2 1:10W J	
1110	NRSA02J-472X	MG R	4.7kΩ 1/10W J *	R1227	NRSA02J-104X	MG R	100kΩ 1/10W J	
1111	NRSA023-821X	MG R	820Ω 1/10W J *	R1228	NRSA02J-680X	MG R	68Ω 1/10W J	
1112	NRSA02J-101X	MG R	100Ω 1/10W J *	R1229	QRK126J-181X	CR	180Ω 1/2W J	
			1kΩ 1/10W J *	R1231	QRG01GJ-101	OM R	100Ω 1₩ J	
1113	NRSA02J-102X	MG R	1KM 1/10W J	R1232	NRSA02J-101X	MG R	100Ω 1/10₩ J	
1121-22	NRSA02J-OROX	MG R	0.0Ω 1/10W J *			NC B	2.2kΩ 1/10W J	
1123	NRSA023-152X	MG R	1.5kΩ 1/10W J *	R1233	NRSA02J-222X	MG R		
	NRSA02J-821X	MG R	820Ω 1/10W J *	R1242	WRSA02J-223X	MG R	22kΩ 1/10W J	
1124			10kΩ 1/10W J *	R1243	NRSA02J-473X	MG R	47kΩ 1/10W J	
1125-27	MRSA02J-103X	MG R	10/07/1/10# 3 4					
1128	WRSA02J-153X	MG R	15kΩ 1/10W J *	R1244	NRSA02J-683X NRSA02J-153X	MG R MG R	68kΩ 1/10W J - 15kΩ 1/10W J	
1131-33	NRSA02J-102X	MG R	1kΩ 1/10W J *	R1245			10kO 1/10w J	
1134	NRSAG2J-681X	MG R	680Ω 1/10W J *	R1246	NRSA02J-103X	MG R		
1175	NRSA02J-561X	MG R	560Ω 1/10W J *	R1247	NRSA02J-473X	MG R	47kΩ 1/10₩ J	
1135				R1248	MRSA02J-273X	MG R	27kΩ 1/10W J	
1136	NRSA02J-681X	MG R	000M 1/10W 2	R1249	NRSA02J-103X	MG R	10kΩ 1/10W J	
1137	NRSA02J-102X	MG R	1kΩ 1/10W J *			MC D	2.2kΩ 1/10W J	
1138	NRSAG2J-391X	MG R	390Ω 1/10W J *	R1250	NRSAG2J-222X	MG R	2.2KG 1/10W J	
1140	MRSACZJ-103X	MG R	10kΩ 1/10W J *	R1251	NRSA02J-333X	MG R	33kΩ 1/10W J	
		MG R	4.7kΩ 1/10W J *	R1252	NRSA02J-222X	MG R	2.2kΩ 1/10W J	
1141	WRSA02J-472X	nu K	8700 1/10W J	R1253	NRSA02J-333X	MG R	33kΩ 1/10W J	
1142	NRSAD2J-821X	MG R		D1273		MG R	82kΩ 1/10W J	
1151	MRSA02J-222X	MG R	2.2kΩ 1/10W - J *	R1254	NRSA02J-823X		0.00 11201 J	
1152-53	NRSAG2J-102X	MG R	1kΩ 1/10W J *	R1255	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
1154	NRSA02J-681X	MG R	680Ω 1/10W J *	R1256	MRSA02J-391X	MG R	390Ω 1/10W J	
1154		HC P		R1257	WRSA02J-823X	MG R	82kΩ 1/10W J	
1155	NRSA02J-561X	MG R		01257	MRSA02J-OROX	MG R	0.0Ω 1/10W J	
1156	NRSA02J-681X	MG R	680Ω 1/10W J *	R1258			3000 1/10H J	
1157	NRSA02J-102X	MG R	1kΩ 1/10W J *	R1259	NRSA02J-391X	MG R	390Ω 1/10W J	
1158	NRSA02J-391X	MG R	390Ω 1/10W J *	R1260-61	NRSA02J-223X	MG R	22kΩ 1/10W J	
1160	NRSA02J-103X	MG R	10kΩ 1/10W J *	R1262	NRSA02J-104X	MG R	100kΩ 1/10W J	
1160		A DIE		R1263	MRSA02J-222X	MG R	2.2kΩ 1/10W J	
1161	NRSA02J-472X	MG R			MRSA02J-333X	MG R	33kΩ 1/10W J	
1162	NRSA02J-821X	MG R	820Ω 1/10W J *	R1264	MKOAUZJ-333X	MC D	2.2kΩ 1/10W J	
1171	NRSA02J-103X	MG R	10kΩ 1/10N J *	R1265	WRSA02J-222X	MG R		
	NRSA02J-562X	HG R	5.6kΩ 1/10W J *	R1266	WRSA02J-333X	MG R	33kΩ 1/10W J	
1172				R1267-69	NRSA02J-750X	MG R	75Ω 1/10W J	
1173	NRSAO2J-221X NRSAO2J-272X	MG R MG R	220Ω 1/10W J * 1 2.7kΩ 1/10W J *	R1277-79	NRSA02J-750X	MG R	75Ω 1/10W J 75Ω 1/10W J	
1174	MK3MUZJ-Z/ZX						22kΩ 1/10W	
1175	NRSA02J-102X	MG R	1kΩ 1/10W J *	R1280 R1281	NRSAO2J-223X NRSAO2J-473X	MG R MG R	47kΩ 1/10W 1	
1176	NRSA02J-392X	MG R	3.9kΩ 1/10W J *	M1201			68kΩ 1/10W	
1177	NRSA02J-472X	MG R	4.7kΩ 1/10W J *	R1282	WRSA02J-683X	MG R	00K1/ 1/10W	
21178	NRSA02J-OROX	MG R	0.0Ω 1/10W J *	R1283	NRSA02J-153X	MG R	15kΩ 1/10W	
			2.7kΩ 1/10W J *	R1284	NRSA02J-103X	MG R	10kΩ 1/10W .	
1179	NRSA023-272X	MG R		R1285	NRSA02J-473X	MG R	47kΩ 1/10W	1
1201-02	MRSA02J-103X	MG R	10kΩ 1/10W J *		NRSA02J-273X	MG R	27kΩ 1/10W .	
1203	WRSA02J-750X	MG R	75Ω 1/10W J *	R1286			10kΩ 1/10W	
1204	QRK126J-151X	C R	150Ω 1/2W J	R1287	NRSA02J-103X	MG R	10KM 1/10W .	
1205	NRSA02J-101X	MG R	100Ω 1/10W J *	R1288	NRSA02J-222X	MG R	2.2kΩ 1/10W .	
1200		OM R	100Ω 1W J *	R1289	WRSA02J-333X	MG R	33kΩ 1/10W .	i
1206	QRG01GJ-101		1002 IR 3	R1290	NRSA02J-222X	MG R	2.2kΩ 1/10W	1
1207	NRSA02J-223X	MG R	22kΩ 1/10W J *	K1290			33kΩ 1/10W	
1208	NRSA02J-473X	MG R	47kΩ 1/10W J *	R1291	NRSA02J-333X	MG R		
1209	NRSA02J-683X	MG R	68kΩ 1/10W J *	R1292	NRSA02J-471X	MG R	470Ω 1/10W .	
11207			15kΩ 1/10W J *	R1301	NRSA02J-221X	MG R	220Ω 1/10W	J
21210	WRSA02J-153X	MG R		R1302	NRSA02J-471X	MG R	470Ω 1/10W	
R1211	WRSA02J-103X	MG R					220Ω 1/10W	
R1212	NRSA023-473X	MG R	47kΩ 1/10W J *	R1303	NRSA02J-221X	MG R	22031 1/10W	,
R1213	NRSA02J-273X	MG R	27kΩ 1/10W J *	R1304	NRSA02J-471X	MG R	470Ω 1/10W	
		MG R	10kΩ 1/10W J *	R1305	NRSA02J-221X	MG R	220Ω 1/10W	J
R1214	NRSA02J-103X			R1306	NRSA02J-271X	MG R	270Ω 1/10W	
11215	NRSA02J-222X	MG R	2.2kΩ 1/10W J *				220Ω 1/10W	
	NR5A02J-333X	MG R	33kΩ 1/10W J *	R1307	NRSA02J-221X	MG R		
1216		MG R	2.2kΩ 1/10W J *	R1308	MRSA02J-471X	MG R	470Ω 1/10W	j
1216	NRSA02J-222X							

No. 51551

Symbol No.	Part No.	Part Name	Description Local	Δ Symbol No. Part No.	Part Name	Description Local	△ Symbol No. Part No. Part Name	Description Local	∆ Symbol No. Part No. Part Name	Description Loca
RESI	STOR			RESISTOR			RESISTOR		CAPACITOR	
R1309 R1310 R1311 R1312 R1313 R1314-15 R1316 R1317-18	MRSA02J-221X MRSA02J-471X VRSA02J-221X MRSA02J-271X NRSA02J-221X NRSA02J-471X NRSA02J-152X MRSA02J-101X	MG R MG R MG R MG R MG R MG R MG R	2200 1/10N J * 4700 1/10N J * 2200 1/10N J * 2200 1/10N J * 2200 1/10N J * 4700 1/10N J * 1.5k0 1/10N J *	R1601 NRSA02J-103X R1602 MRSA02J-104X R1610 MRSA02J-471X R1611 MRSA02J-471X R1612 MRSA02J-561X R1613-14 MRSA02J-123X R1615 MRSA02J-123X R1616 NRSA02J-102X	MGR MGR MGR MGR MGR MGR MGR MGR MGR	10k0 1/10W J * 100k0 1/10W J * 4700 1/10W J * 0.00 1/10W J * 5500 1/10W J * 12k0 1/10W J * 6800 1/10W J * 1k0 1/10W J *	R1751-52 MRSA022-103X MG R R1753 MRSA022-472X MG R R1754 MRSA022-103X MG R R1755 MRSA022-472X MG R R1756-57 MRSA022-103X MG R R1758-59 MRSA022-103X MG R R1750 MRSA022-102X MG R R1760 MRSA022-102X MG R R1761-65 MRSA022-102X MG R	10kG 1/10w J + 4.7kG 1/10w J + 10kG 1/10w J - 4.7kG 1/10w J + 4.7kG 1/10w J + 10kG 1/10w J + 2200 1/10w J + 2200 1/10w J + 2200 1/10w J + 2200 1/10w J + 4.7kG	C1140 QETMICN-475Z E CAP. C1141 MCB21HK-103X C CAP. C1151 QETMIAN-227Z E CAP. C1152 MCB21HK-103X C CAP. C1152 MCB21HK-103X C CAP. C1153 QETMIAN-107Z E CAP. C1154 MCC21HJ-121X C CAP. C1155 QETMICN-476Z E CAP. C1161 QETMICN-476Z E CAP.	47µF 15V M 0.01µF 50V K 220µF 10V M 0.01µF 50V K 100µF 10V M 120µF 50V J 47µF 16V M 47µF 16V M
R1319 R1320 R1321 R1323-24 R1326-29 R1330 R1331 R1332-33	NRSA02J-152X NRSA02J-221X NRSA02J-102X NRSA02J-562X NRSA02J-152X NRSA02J-103X NRSA02J-221X NRSA02J-471X	MG R MG R MG R MG R MG R MG R MG R	1.5kQ 1/10W J * 220Q 1/10W J * 1kQ 1/10W J * 5.6kQ 1/10W J * 1.5kQ 1/10W J * 10kQ 1/10W J * 20Q 1/10W J *	R1617-18 NRSA02J-682X R1619-20 NRSA02J-223X R1659-60 QRN143J-2R2X R1661 NRSA02J-561X R1663-64 NRSA02J-104X R1666 NRSA02J-104X R1666 NRSA02J-104X	MGR MGR CR MGR MGR MGR MGR MGR	6.8kn 1/10w J * 2kn 1/10w J * 2kn 1/10w J * 2kn 1/10w J * 5500 1/10w J * 2kn 1/10w J * 100kn 1/10w J * 6.8kn 1/10w J * 100kn 1/10w J * 10wkn 1	R1766 MRSA021-103X MG R R1767 MRSA021-104X MG R R1768 MRSA021-043X MG R R1770 MRSA021-033X MG R R1771 MRSA021-103X MG R R1772-74 MRSA021-392X MG R R1772-75 MRSA021-563X MG R R1777-76 MRSA021-563X MG R	10kG 1/10w J • 100kG 1/10w J • 82kG 1/10w J • 10kG 1/10w J • 3.9kG 1/10w J • 10kG 1/10w J • 56kG 1/10w J • 22kG 1/10w J •	C1163 QETWICH-476Z E CAP. C1171 MDC21H-22IX C CAP. C1172 MDC21H-56DX C CAP. C1173 MDC21H-22IX C CAP. C1174 MDC21H-22IX C CAP. C1194 QETWICH-22IX C CAP. C1199 QETWICH-227Z E CAP. C1190 MCB21H-03DX C CAP. C1201 QETWICH-227Z E CAP.	47µF 16V M 4 220pF 50V J 4 56pF 50V J 4 220pF 50V J 4 120pF 50V J 4 120pF 50V J 6 0.01µF 50V K 6 220µF 16V M 4
R1334-35 R1336 R1337 R1338-40 R1341 R1342 R1343-44 R1345-46	NRSA02J-152X NRSA02J-101X NRSA02J-101X NRSA02J-101X NRSA02J-823X NRSA02J-823X NRSA02J-101X NRSA02J-103X	MG R MG R MG R MG R MG R MG R MG R	1.5kQ 1/10W J * 100Q 1/10W J * 10kQ 1/10W J * 10kQ 1/10W J * 10kQ 1/10W J * 82kQ 1/10W J * 10kQ 1/10W J *	R1668 NRSA02J-0R0X R1669 NRSA02J-473X R1670 NRSA02J-9R0X R1671 NRSA02J-273X R1672 NRSA02J-122X R1673 NRSA02J-122X R1674 NRSA02J-563X R1675 NRSA02J-103X	MGR MGR MGR MGR MGR MGR MGR	0.0Q 1/10W J * 47kG 1/10W J * 0.00 1/10W J * 0.00 1/10W J * 27kG 1/10W J * 1.2kQ 1/10W J * 1.0kG 1/10W J * 58kG 1/10W J * 58kG 1/10W J * 1.0kG	R1778 WISA021-103X MG R R1779 WISA021-333X MG R R1780 WISA021-3104X MG R R1791 WISA021-104X MG R R1793 WISA021-102X MG R R1794 WISA021-102X MG R R1794 WISA021-102X MG R R1795 WISA021-102X MG R R1795 WISA021-102X MG R	10kg 1/10w J • 33kG 1/10w J • 10kkg 1/10w J • 10kkg 1/10w J • 10kg 1/10w J • 1.5kg 1/10w J • 1.5kg 1/10w J • 1kg 1/10w J • 10kg 1/10w J • 10k	C1202 MCB21HK-102X C CAP. C1203-04 GETMI-105Z E CAP. C1205-05 GETMI-105Z E CAP. C1207 GETMI-105Z E CAP. C1211 MCB21HK-102X C CAP. C1211 MCB21HK-102X C CAP. C1212-13 GETMI-105Z E CAP. C1214-15 GETMI-105Z E CAP. C1214-15 GETMI-105Z E CAP.	1000pF SOV K 1µF SOV M 10µF 50V M 220µF 16V M 1000pF 50V K 1µF 50V M 1µF 50V M 1µF 50V M
R1347 R1348 R1349 R1350 R1351 R1372 R1381 R1382	NRSA02J-562X NRSA02J-471X NRSA02J-152X NRSA02J-271X NRSA02J-272X NRSA02J-274X NRSA02J-102X NRSA02J-152X	MG R MG R MG R MG R MG R MG R MG R	5.6kQ 1/10N J * 470Q 1710N J * 1.5kQ 1/10N J * 270Q 1/10N J * 270Q 1/10N J * 270kQ 1/10N J * 1kQ 1/10N J * 1.5kQ 1/10N J * 1.5	R1676 MRSA021-273X R1677 MRSA021-103X R1678 MRSA021-103X R1679 MRSA021-103X R1680 MRSA021-773X R1682 MRSA021-103X R1683 MRSA021-562X R1684 MRSA021-473X	MGR MGR MGR MGR MGR MGR MGR	27kQ 1/10N J * 10kQ 1/10N J * 55kQ 1/10N J * 10kQ 1/10N J * 27kQ 1/10N J * 10kQ 1/10N J * 10kQ 1/10N J * 5.5kQ 1/10N J *	R1797 HR\$A02J-102X MG R R1820 HR\$A02J-32X MG R R1880-82 HR\$A02J-102X MG R R1884 HR\$A02J-473X MG R R1884-85 HR\$A02J-103X MG R R1888-89 HR\$A02J-103X MG R R1890 HR\$A02J-21XX MG R R1891 HR\$A02J-273X MG R	1kΩ 1/10W J * 3.3kΩ 1/10M J * 1kΩ 1/10W J * 1kΩ 1/10W J * 10kΩ 1/10W J * 10kΩ 1/10W J * 220Ω 1/10W J * 27kΩ 1/10W J *	C1218-19 QETM1CH-476Z E CAP. C1220 QETM1HH-105Z E CAP. C1221-22 QETM1HH-105Z E CAP. C1221-23 QETM1H-105Z E CAP. C1223-34 QETM1H-105Z E CAP. C1231-33 QETM1CH-476Z E CAP. C1234 KEZIHK-105X C CAP. C1301 QETM1CH-272Z E CAP. C1302 KCB21HK-104X CHIP CAP.	47µF 16V M 1 1µF 50V M 1 100µF 16V M 1 1µF 50V M 4 47µF 16V M 4 1000pF 50V K 1 220µF 16V M 1 0.1µF 50V K 1
R1383 R1384 R1385 R1386 R1387 R1388 R1389 R1390	NRSA02J-822X NRSA02J-883X NRSA02J-273X NRSA02J-102X NRSA02J-683X NRSA02J-73X NRSA02J-102X NRSA02J-683X	MG R MG R MG R MG R MG R MG R MG R	8.2kQ 1/10W J * 68kQ 1/10W J * 27kQ 1/10W J * 1kQ 1/10W J * 68kQ 1/10W J * 27kQ 1/10W J * 1kQ 1/10W J * 68kQ 1/10W J *	R1689-90 MR5A02J-103X R1691-92 MR5A02J-103X R1693-94 MR5A02J-103X R1700 MR5A02J-080X R1701 MR5A02J-103X R1703-06 MR5A02J-823X R1703-06 MR5A02J-103X	MGR MGR MGR MGR MGR MGR MGR MGR	10kQ 1/10W J * 12kQ 1/10W J * 10kQ 1/10W J * 10kQ 1/10W J * 100kQ 1/10W J * 100kQ 1/10W J * 1kQ 1/10W J * 1kQ 1/10W J *	R1892-96 MRSA02J-221X MG R R1897 QRG029J-220 OM R R1901 MRSA02J-101X MG R R1902 MRSA02J-221X MG R R1903 MRSA02J-472X MG R R1904 MRSA02J-223X MG R R1904 NRSA02J-102X MG R	2200 1/10W J • 22 0 2W J • 1000 1/10W J • 2240 1/10W J • 4.740 1/10W J • 2240 1/10W J • 140 1/10W J	C1303 QFTM1CM-476Z E CAP. C1304 QEMC1CM-476Z BP E CAP. C1305 QEMC1CM-476Z BP E CAP. C1306 MCR2HM-228X C CAP. C1307-08 QEMC1HM-105Z 3P E CAP. C1309 MCR2HM-30X C CAP. C1311-13 MCR2HM-104X CHTP CAP. C1314 MCR2HM-104X CHTP CAP.	47µF 15V M 47µF 15V M 422µF 50V M 422µF 50V M 422µF 50V M 439PF 50V J 42200PF 50V K 42200PF 50V K 44200PF 50V K 44200PF 50V K 44200PF 50V K 4420PF 5
R1391 R1392 R1395-97 R1398 R1401-02 R1403 R1404 R1405	NRSA02J-273X NRSA02J-102X NRSA02J-0R0X NRSA02J-011X NRSA02J-682X NRSA02J-222X QRX01GJ-1R0 QRL029J-221	MG R MG R MG R MG R MG R MG R MF R	27kQ 1/10N J * 1kQ 1/10N J * 0.00 1/10N J * 100Q 1/10N J * 6.8kQ 1/10N J * 2.2kQ 1/10N J * 1.0Q 1N J *	R1708 MRSA02J-102X R1709 MRSA02J-821X R1710 MRSA02J-821X R1711 MRSA02J-102X R1713-14 MRSA02J-103X R1716 MRSA02J-103X R1718 MRSA02J-102X R1719 MRSA02J-101X	MGR MGR MGR MGR MGR MGR MGR	1kG 1/10w J * 10kG 1/10w J * 820G 1/10w J * 1kG 1/10w J * 10kG 1/10w J * 10kG 1/10w J * 10kG 1/10w J * 10kG 1/10w J *	CAPACITOR C1001 MC32!HK-104X CHIP CAP. C1002 QETMIHM-107Z E CAP. C1003 MC32!HK-104X CHIP CAP. C1004 QETMICH-107Z E CAP. C1005 MC32!HK-104X CHIP CAP. C1005 QETMICH-2127Z E CAP.	0.1µF 50V K = 100µF 50V M = 0.1µF 50V K = 100µF 15V K = 0.1µF 50V K = 220µF 16V M = 0.100 M = 0.000 M = 0.	C1315 NCB21CK-474X C CAP. C1316 NCB21HK-104X CHIP CAP. C1317 NCB21EK-154X C CAP. C1318 NCB21HK-132X CHIP CAP. C1318 NCB21HK-323X C CAP. C1320 NCB21HK-323X C CAP. C1320 NCB21HK-104X CHIP CAP. C1321-22 NDC21HJ-150X C CAP. C1323 NCB21HK-104X C CAP.	0.47µF 16V K 4 0.1µF 50V K 4 0.1½F 25V K 0.1µF 50V K 4 3300pF 50V K 4 0.1µF 50V K 4 0.1µF 50V K 4
R1406 R1407 R1408 R1409-10 R1461 R1462 R1463 R1464	NRSA02J-222X QRX01GJ-1R8 QRX01GJ-1R5 NRSA02J-103X NRSA02J-272X NRSA02J-563X NRSA02J-104X NRSA02J-123X	MG R MF R MF R MG R MG R MG R MG R	2.2kg 1/10W J * 1.80 1W J * 1.50 1W J * 1.50 1W J * 2.7kg 1/10W J * 2.7kg 1/10W J * 100kg 1/10W J * 12kg 1/10W J *	R1720 HR5A02J-102X R1721-23 HR5A02J-472X R1724-26 HR5A02J-821X R1727 HR5A02J-153X R1728 HR5A02J-103X R1729 HR5A02J-103X R1730 HR5A02J-223X R1731 HR5A02J-562X	MGR MGR MGR MGR MGR MGR MGR MGR	1kΩ 1/10W J * 4.7kΩ 1/10W J * 820Ω 1/10W J * 15kΩ 1/10W J 10kΩ 1/10W J 68kΩ 1/10W J * 21kΩ 1/10W J * 5.6kΩ 1/10W J *	C1007 MC321MK-22XX C CAP. C1008 QETNIMH-105Z E CAP. C1101-02 QETNICM-107Z E CAP. C1104 QETNICM-475Z E CAP. C1105 QETNICM-474Z BP E CAP. C1106 QETNIMH-106Z E CAP. C1107 QETNIMH-227Z E CAP. C1127-22 MC321MK-103X C CAP.	22006F 50V K = 100F 50V M = 100F 50V M = 47if 16V M = 0.47if 50V M = 10if 50V M = 220F 10V M = 0.01if 50V K =	C1325-26 MCB21HK-104X CHIP CAP. C1377 CEPHICM-2277 E CAP. C1328-32 MCB21HK-104X CHIP CAP. C1341 QEMC1HH-105Z BP E CAP. C1342-44 MOC21H-1-210X CAP. C1345 MCC21H-1-210X CAP. C1362 MCC21H-1-310X CAP. C1363 CQTH-1-1-10X CAP. C1363 CQTH-1-1-10X E CAP.	0.1µF SOV K # 220µF 16V M # 0.1µF SOV M # 220F SOV J # 220F SOV J # 330F SOV M # 10µF SOV M # *
R1501 R1551 R1552 R1553 R1554	NRSA02J-332X NRSA02J-100X NRSA02J-124X NRSA02J-683X NRSA02J-562X NRSA02J-333X NRSA02J-471X NRSA02J-562X	MG R MG R MG R MG R MG R MG R MG R	3.3kQ 1/10W J * 100 1/10W J * 120kQ 1/10W J * 68kQ 1/10W J * 5.6kQ 1/10W J * 33kQ 1/10W J * 4.7kQ 1/10W J *	R1732 HR5A02.J-103X R1733 HR5A02.J-22X R1734 HR5A02.J-682X R1735-36 HR5A02.J-682X R1738 HR5A02.J-183X R1739 HR5A02.J-331X R1740-42 HR5A02.J-31X R1741 HR5A02.J-22ZX	MG R MG R MG R MG R MG R MG R MG R	10k0 1/10w J * 2.2k0 1/10w J * 10k0 1/10w J * 6.8k0 1/10w J * 18k0 1/10w J * 3300 1/10w J * 10k0 1/10w J * 2.2k0 1/10w J *	C1123 QETNICH-475Z E CAP. C1124-25 NGB21HK-103X C CAP. C1128 QETNICH-107Z E CAP. C1129 QETNICH-475Z E CAP. C1130 NGB21HK-103X C CAP. C1131 QETNICH-475Z E CAP. C1131 QETNICH-475Z E CAP. C1131 QETNICH-475Z E CAP. C1131 NGB21HK-103X C CAP. C1134 NGB21HK-103X C CAP.	47µF 16V M • 0.01µF 16V M • 100µF 16V M • 47µF 16V M • 0.01µF 50V K • 47µF 16V M • 0.01µF 50V K • 0.01µF 50V K •	C1387-88 QETW1CH-4762 E CAP. C1389-90 QETW0JH-228Z E CAP. C1392 MC021H-560X C CAP. C1396-98 MC821HX-104X CHIP CAP. C1403 QFLC2AJ-104Z M CAP. C1404 MC821HX-104X CHIP CAP. C1406 MC821HX-104X CHIP CAP. C1406 QETM1VM-108 E CAP.	47 _M F 16V M = 2200 _M F 5.3V M = 68pF 50V J = 0.1 _M F 50V K = 0.1 _M F 50V K = 82pF 50V J = 1000 _M F 35V M =
R1558 R1559 R1560	NRSA02J-104X NRSA02J-154X NRSA02J-100X	NG R NG R	100kΩ 1/10W J * 150kΩ 1/10W J * 10Ω 1/10W J *	R1744-46 NRSA02J-103X R1747 NRSA02J-102X R1748 NRSA02J-103X	%G R #G R #G R	10kΩ 1/10W J * 1kΩ 1/10W J * 10kΩ 1/10W J *	C1135 NDC21HJ-18IX C CAP. C1136-39 NCB21HK-103X C CAP.	180pF 50V J * 0.01µF 50V K *	C1408 QETN1VM-337Z E CAP. C1409-10 QFV71HJ-474Z MF CAP.	330μF 35V M * 0.47μF 50V J *

AV-28WZ4EP AV-28WZ4EPS

Symbol No.	Part No.	Part Name	Des	scriptio	n L
CAP	ACITOF	2			
C1412	OFLC2AJ-104Z	M CAP.	0.1µF	100V	3
C1417-18	QETN1CM-108Z	E CAP.	1000µF		Ħ
C1419	NCB21HK-682X	C CAP.	6800pF	50V	K
C1461	QETN1HM-226Z	E CAP.	22µF		H
C1551-52	NCB21CK-224X	C CAP.	0.22µF	16V	K
C1553	OETN1EM-476Z	E CAP.	47µF	25V	H
C1554-55	NCB21CK-224X	C CAP.	0.22µF		ĸ
C1601-02	QDC31HJ-2R0Z	C CAP.	2.0pF	50V	ĵ
C1603-04	NCB21HK-103X	C CAP.	0.01µF	50V	K
C1605-06	QETN1HM-106Z	E CAP.	10µF		Ħ
C1607-08	NCF21EZ-104X	C CAP.	0.1µF		7
C1609-12	QETN1HM-105Z	E CAP.	1uF		М
C1613-14	NDC21HJ-471X	C CAP.	470pF	50V	j
C1615	NCF21EZ-104X	C CAP.	0.1µF		ž
C1616-18	0ETN1HM-106Z	E CAP.	10µF		Ħ
C1619	NCF21EZ-104X	C CAP.	0.1µF	25V	2
C1620	QETN1HM-106Z	E CAP.	10uF	50V	Ħ
C1621-24	NCB21HK-102X	C CAP.	1000pF		п К
			100001		
C1625-26	NDC21HJ-391X	C CAP.	390pF	50V	}
C1627-28	NCB21HK-102X	C CAP.	1000pf		K
C1629	NCB21HK-103X	C CAP.	0.01µF		K
C1630	NCF21EZ-104X	C CAP.	0.1μF		Z
C1631	QETN1CH-107Z	E CAP.	100µF		Ħ
C1632	MCF21EZ-104X	C CAP.	0.1µF	25V	2
C1643	QETN1HM-105Z	E CAP.	1μF		Ħ
C1644-45	NDC21HJ-470X	C CAP.	47pF	50V	J
C1646	NDC21HJ-820X	C CAP.	82pF	50V	j
C1647	NCB21HK-472X	C CAP.	4700pF	50V	ĸ
C1648	NDC21HJ-180X	C CAP.	18pF	50V	J
C1652-53	QETN1HM-105Z	E CAP.	1µF		Ħ
C1654	OETN1HM-107Z	E CAP.	100µF		Ħ
C1655	QETN1HM-106Z	E CAP.	100µF		M
C1656-57	NCF21HZ-224X	C CAP.	0.22µF	50V	2
C1658	QETM1HM-228	E CAP.	2200µF		Ř
C1661-62	NCF21HZ-224X	C CAP.	0.22µF		Z
C1663-64	QETM1VN-108	E CAP.	1000µF		Ħ
C1667	QETN1CH-227Z	E CAP.	220µF		H
C1668-69	QETN1HM-1052	E CAP.	1µF		H
C1670 C1671	QETN1HN-106Z QETN1CM-476Z	E CAP. E CAP.	10μF 47μF		H
C1672	NDC21HJ-100X	C CAP.	10pF		j
C1673	QETN1HM-105Z	E CAP.	1μF		Ħ
C1674	NDC21HJ-100X	C CAP.	10pF		į
C1675	QETN1HM-105Z	E CAP.	1µF	50V	H
C1679	QETN1HM-106Z	E CAP.	10µF	50V	Ħ
C1680-81	NDC21HJ-221X	C CAP.	220pF		j
C1682	OETN1CH-227Z	E CAP.	220µF		H
C1701	NDC21HJ-471X	C CAP.	470pF		j
C1702	NCB21HK-682X	C CAP.	6800pF	50V	K
C1703	NCB21HK-104X	CHIP CAP.	0.1µF		K
C1704	QETN1AM-1072	E CAP.	100µF		Ň
C1705-06	NDC21HJ-2ROX	C CAP.	2 0-5		n J
			2.0pF		
C1707	NCB21HK-104X	CHIP CAP.	0.1µF		K
C1708	NCB21HK-333X	C CAP.	0.033µF		K
C1709 C1710	NCB21HK-104X Qetn1em-476Z	CHIP CAP. E CAP.	0.1µF 47uF		K M
C1711 C1712	NCB21HK-104X NCB21HK-333X	CHIP CAP. C CAP.	0.1μF 0.033μF		K
C1713	NCB21HK-104X	CHIP CAP.	0.1uF		K
(1714	QETN1HM-474Z	E CAP.			
C1714 C1715			0.47µF		H
	QETN1CH-476Z	E CAP.	47µF		H
C1717	QETN1HM-106Z	E CAP.	10μF		Ħ
C1718 C1719	NDC21HJ-471X NCF21CZ-105X	C CAP. C CAP.	470pF 1uF		j Z
			·		
C1720	NCB21HK-102X NCS21HJ-471X	C CAP. C CAP.	1000pF 470pF		K J
(1757					
C1757 C1758	QETN1AM-227Z	E CAP.	220µF		4

Symbol No.	Part No.	Fart Name	Des	scripti	on	Lo
CAP	ACITOR	:				
C1759	NCB21HK-104)	CHIP CAP.	0.1µF	50V	ĸ	
C1760-61	MDC21HJ-15CX	C CAP.	15pF	50V	ï	
C1762	NCB21HK-104X	CHIP CAP.	0.1µF	50V	K	
C1763	QETN1CM-47EI	E CAP. CHIP CAP.	47µF	16V	Ħ	
C1764	WCB21HK-1041		0.1µF	50V	K	
C1766-68	WCB21HK-104Y	CHIP CAP.	0.1μF	50V	K	
C1774	NDC21HJ-1511	C CAP.	150pF	50V	j	
C1780	NCB21HK-104X	CHIP CAP.	0.1μF	50V	K	
C1781	NDC21HJ-101%	C CAP.	100pF	50V	J	
C1782	WCB21HK-102x	C CAP. C CAP.	1000pF	50V	K	
C1783	NDC21HJ-151X	C CAP.	150pF	50V	J	
C1784	QEINICH-22:_	E CAP. E CAP.	220µF	16V	Ħ	
C1901 C1902	QETN1CM-2271 QETN1CM-1071 QETN1HM-1061	E CAP.	100μF 10μF	16V 50V	Ħ	
C1302	QL INZIN 1000		1041	301	"	
TRAI	NSFORM	IER				
T1101	CE42697-001 CE42697-001 CE42697-001	LOWPASS FILTER				
T1111 T1121	CE42697-001 CE42697-001	LOWPASS FILTER LOWPASS FILTER				
11121	C142037-001	LOW NOS TILTER				
COII	_					_
L1001-02	00L01BK-8R2I	CCIL		8.2	hu!	
L1003	QQL01BK-8R2I QQL01BK-221I	COIL		220	μH	
L1004	QQLQ1BK-5R6I	COIL		5.6	μН	
L1101	ORN143J-OROX	CR	0.0Ω		J	
L1102-05	QQL03BJ-22GZ QQL03BJ-22GZ QQL03BJ-33GZ	CGIF			μH	
L1111	QQL03BJ-22GZ	COIL			μH	
L1121	QQL03BJ-33CI	COIL			lμH	
L1301	QQL01BK-3902	COIL			μH	
L1302 L1601-02	NQL024J-5R6X ORN143J-0R0X	CGIL C R	0.0Ω	5.6	μH	
		COIL	0.00			
L1604 L1605	QQL01BJ-180Z QQL01BJ-22CZ	COTE			lщH	
L1701	QQL01BX-4R7Z	COIL		4.7	hu!	
L1702	QQL01BK-5R6Z	COIL		5.6		
L1752	ORN143J-OROX	C R	0.0Ω	1/4W	J	
L1753	QQL01BK-4R7I	COIL		4.7	μH	
DIOI	DĒ					
D1201-11	MA3130/H/-X	ZENER DIODE				
D1214-15	MA3130/H/-X	ZENER DIODE				
D1402	BYD33D-T3	SI.DIODE ZENER DIODE				
02.02	MA3330/L/->					
D1403-04						
D1403-04 D1461	MA111-X	SI.DIODE				
D1403-04 D1461 D1462	MA3220/H/->	ZEMER DIODE				
D1403-04 D1461 D1462 D1502	MA3220/M/-> MA111-X	ZENER DIODE SI.DIODE				
D1403-04 D1461 D1462 D1502 D1504	MA3220/M/-> MA111-X MA111-X	ZEMER DIODE SI.DIODE SI.DIODE				
D1403-04 D1461 D1462 D1502 D1504 D1653-54	MA3220/M/-> MA111-X MA111-X MA3330/L/->	ZENER DIODE SI DIODE SI DIODE ZENER DIODE				
D1403-04 D1461 D1462 D1502 D1504 D1653-54 D1658	MA3220/M/-> MA111-X MA111-X MA3330/L/-> MA153A-X	ZENER DIODE SI.DIODE SI.DIODE ZENER DIODE SI.DIODE				
D1403-04 D1461 D1462 D1502 D1504 D1653-54 D1658 D1660 D1661	MA3220/M/-> MA111-X MA111-X MA3330/L/->	ZENER DIODE SI.DIODE SI.DIODE ZENER DIODE SI.DIODE				
D1403-04 D1461 D1462 D1502 D1504 D1653-54 D1658 D1660 D1661 D1664-65	MA3220/H/-> MA111-X MA111-X MA3330/L/-> MA153A-X MA111-X MA111-X	ZEMER DIODE ST. DIODE ST. DIODE ZEMER DIODE ST. DIODE ST. DIODE ST. DIODE ST. DIODE ST. DIODE				
D1403-04 D1461 D1462 D1502 D1504 D1653-54 D1658 D1660 D1661 D1664-65	MA3220/H/-> MA111-X HA111-X HA330/L/-> MA153A-X HA111-X HA153A-X HA111-X HA3062/H/->	ZEMER DIODE S1. DIODE S1. DIODE S1. DIODE ZEMER DIODE S1. DIODE S1. DIODE S1. DIODE S1. DIODE S1. DIODE S1. DIODE S2. DIODE S2. DIODE S3. DIODE				
D1403-04 D1461 D1462 D1502 D1504 D1653-54 D1658 D1660 D1661 D1664-65 D1666-68	MA3220/H/-> MA111-X MA111-X MA111-X MA330/L/-> MA153A-X MA111-X MA153A-X MA111-X MA3062/H/-> MA3062/H/->	ZEMER DIODE S. DIODE S. DIODE ZEMER DIODE S. DIODE ZEMER DIODE ZEMER DIODE ZEMER DIODE				
D1403-04 D1461 D1462 D1502 D1504 D1653-54 D1658 D1660 D1661 D1664-65 D1666-68 D1701-02	MA3220/H/-> MA111-X MA111-X HA330/L/-> MA153A-X MA153A-X MA153A-X MA111-X MA3050/H/-> MA3050/H/-> MA3150/H/-> MA111-X	ZEMER DIODE S1. DIODE S1. DIODE S1. DIODE ZEMER DIODE S1. DIODE S1. DIODE S1. DIODE S1. DIODE S1. DIODE S1. DIODE S2. DIODE S2. DIODE S3. DIODE				
D1403-04 D1461 D1462 D1502 D1504 D1653-54 D1658 D1660 D1661 D1664-65 D1666-68 D1701-02	MA3220/H/-> MA111-X MA111-X MA3330/L/-> MA153A-X MA111-X MA153A-X MA111-X MA3062/H/-> MA3150/H/-> MA111-X	ZEMER DIODE ST. DIODE ST. DIODE ST. DIODE ZEMER DIODE ST. DIODE ZEMER DIODE ZEMER DIODE ST. DIODE ST. DIODE ST. DIODE ST. DIODE ST. DIODE ST. DIODE				
D1403-04 D1461 D1462 D1502 D1504 D1653-54 D1660 D1661 D1664-65 D1666 D1667-68 D1701-02	MA3320/H/-7 MA111-X MA111-X MA3330/L/-7 MA153-X MA111-X MA153-X MA111-X MA3062/H/-7 MA310/H/-7 MA111-X	ZEMER DIODE \$1. DIODE \$2. DIODE \$2. DIODE \$3. DIODE \$3. DIODE \$3. DIODE \$3. DIODE \$3. DIODE \$3. DIODE \$4. DIODE \$5. DIODE				
D1403-04 D1461 D1462 D1502 D1504 D1653-54 D1660 D1661 D1666-65 D1667-68 D1701-02 D1704 D1708 D1709	MA3220/H/-7 MA111-X MA111-X MA330/L/-7 MA153A-X MA111-X MA153A-X MA111-X MA3062/H/-7 MA310/H/-7 MA111-X MA3068/H/-7	ZEMER DIODE ST. DIODE				
D1403-04 D1461 D1461 D1462 D1502 D1504 D1653-54 D1658 D1666 D1664-65 D1667-68 D1701-02 D1704 D1708 D1709 D1710	MA3320/H/-7 MA111-X MA111-X MA1330/L/-7 MA153-X MA111-X MA153-X MA111-X MA3052/H/-7 MA3150/H/-7 MA3068/H/-7 MA3068/H/-7 MA3068/H/-7 MA3068/H/-7 MA3068/H/-7	ZEMER DIODE ST. DIODE				
D1403-04 D1461 D1461 D1462 D1502 D1504 D1653-54 D1660 D1664-65 D1666-68 D1701-02 D1704 D1708 D1709 D1711	MA3320/H/-7 MA111-X MA3330/L/-7 MA153A-X MA111-X MA153A-X MA111-X MA3150/H/-7 MA3150/H/-7 MA311-X MA3068/H/-7 MA111-X MA111-X MA111-X MA111-X	ZEMER DIODE ST. DIODE				
D1403-04 D1461 D1461 D1462 D1502 D1504 D1653-54 D1658 D1660 D1664-65 D1667-68 D1701-02 D1704 D1708 D1709 D1710 D1711 D1711-53	MA3320/H-7 MA111-X MA3330/L/-Y MA153-X MA111-X MA111-X MA111-X MA3062/H-7-MA3150/H-5 MA111-X MA3062/H-7-MA111-X MA3064-T2 MA111-X MA3064-T2 MA111-X MA311-X MA311-X MA311-X MA311-X MA311-X	ZEMER DIODE ST. DIODE				
D1403-04 D1461 D1461 D1462 D1502 D1504 D1653-54 D1658 D1660 D1664-65 D1666-65 D1667-68 D1701-02 D1704 D1708 D1710 D1711 D1711 D17151-53	MA3120/H/-7 MA111-X MA3330/L/-7 MA153-X MA111-X MA111-X MA111-X MA3150/H/-7 MA111-X MA3068/H/-7 MA111-X MA3068/H/-7 MA111-X MA3068/H/-7 MA111-X MA111-X MA111-X MA111-X	ZEMER DIODE S. DIODE				
D1403-04 D1461 D1461 D1462 D1502 D1504 D1653-54 D1658 D1660 D1664-65 D1667-68 D1701-02 D1704 D1708 D1709 D1710 D1711 D1711-53	MA3320/H-7 MA111-X MA3330/L/-Y MA153-X MA111-X MA111-X MA111-X MA3062/H-7-MA3150/H-5 MA111-X MA3062/H-7-MA111-X MA3064-T2 MA111-X MA3064-T2 MA111-X MA311-X MA311-X MA311-X MA311-X MA311-X	ZEMER DIODE ST. DIODE				

No. 51551

Symbol No.	Part No.	Part Name	Description Loca
TRAN	SISTO	3	
Q1101- 04	25C2412K/OR/-X	SI.TRANSISTOR	
01111	25C2412K/QR/-X	SI.TRANSISTOR	
01112	25A1037AK/QR/-X	SI.TRANSISTOR	
Q1113-14	2SC2412K/QR/-X	SI. TRANSISTOR	
	25C2412K/QR/-X	SI.TRANSISTOR	
Q1121	23C2412N/QN/-N	SI.TRANSISTOR	
Q1122	25A1037AK/QR/-X		
Q1123-24	25C2412K/QR/-X	SI.TRANSISTOR	
Q1131-32	2SC2412K/QR/-X	SI.TRANSISTOR	
01201-02	25C2712/YG/-X	SI.TRANSISTOR	
Q1203	25C1815/YG/-T	SI.TRANSISTOR	
01204-05	25C2712/YG/-X	SI.TRANSISTOR	
	DTC323TK-X	DIGI.TRANSISTOR	
Q1206-07		SI. TRANSISTOR	
Q1208	2SA1162/YG/-X	ST. TRANSTITUR	
Q1209	25A1015/YG/-T	SI.TRANSISTOR	
Q1211	2SA1162/YG/-X	SI.TRANSISTOR	
Q1213-14	2SC2712/YG/-X	SI.TRANSISTOR	
01315.16	DTC323TK-X	DIGI.TRANSISTOR	
Q1215-16	25A1162/YG/-X	SI.TRANSISTOR	
01217			
Q1220-21	2SC2712/YG/-X	SI.TRANSISTOR	
Q1301	2SA1162/YG/-X	SI.TRANSISTOR	
Q1303-04	2SA1162/YG/-X	SI.TRANSISTOR	
Q1305	25C2712/YG/-X	SI.TRANSISTOR	
Q1345	DTC124EKA-X	DIGI.TRANSISTOR	
Q1346	25C2712/YG/-X	SI.TRANSISTOR	
Q1351	DTC124EKA-X	DIGI.TRANSISTOR	
Q1381-83	25C2712/YG/-X	SI.TRANSISTOR	
Q1461-62	2SC2712/YG/-X	SI.TRANSISTOR	
01601	DTC323TK-X	DIGI.TRANSISTOR	
Q1602	25A1162/YG/-X	SI.TRANSISTOR	
01603	25C2712/YG/-X	SI.TRANSISTOR	
01655-56	DTC323TK-X	DIGI.TRANSISTOR	
01657	2SC2712/YG/-X	SI.TRANSISTOR	
•			
Q1658-60	25A1162/YG/-X	SI.TRANSISTOR	
01701-08	2SC2712/YG/-X	SI.TRANSISTOR	
Q1709	2SA1162/YG/-X	SI.TRANSISTOR	
01752	25A1162/YG/-X	SI.TRANSISTOR	
Q1753	DTC124EKA-X	DIGI. TRANSISTOR	
01901	25A1162/YG/-X	SI.TRANSISTOR	
Q1902	25C2712/YG/-X	SI.TRANSISTOR	
41701	A PUBLISHED		
IC			
751101	TCOOOCAN	T C (DICT MOS)	
IC1101	TC9090AN	I.C. (DIGI-MOS)	
IC1301	CXA1545AS	I.C. (MONO-ANA)	
IC1303	TDA9143/N3	I.C. (MONO-ANA)	
IC1304	TDA4665	I.C. (MONO-ANA)	
IC1305	LA7016	I.C.(MOWO-ANA)	
IC1401	LA7841	I.C.(MONO-ANA)	
IC1551	LA6515	I.C. (MONO-ANA)	
101601	MSP3410D-PP-B4	I.C.(DIGI-OTHER)	
IC1651	TA8246H	1.C.(HYBRID)	
IC1652	BA4558F-X	I.C. (MONO-ANA)	
IC1701	M37280MK-1015P	I C	
IC1701	L78LR05E-MA	I.C. (MONO-ANA)	
IC1702	AT24C1632WZ4EP	1.C.	(SERVICE)
IC1754	SDA5275S	I.C.(MICRO-PROC)	()
IC1755	MSM514400D-60ZS	I.C. (D-RAM)	
101/33			
отн	ERS		
	CEMS009-064	I.C.SOCKET	
CW1002	CHC108N-25T-AE	FFC CONNECTOR	
CN1002	CHA401B-35P-J	HQF PLUG	
		CR	0.0Ω 1/4W J
K1001	QRN143J-OROX	CR	0.0Ω 1/4W J
1/1000	QRN143J-OROX		U.UM 1/7W J
K1009	CE41433 A017		
K1101	CE41433-001Z	BEADS CORE	
	CE41433-001Z CE41433-001Z CE41433-001Z	BEADS CORE BEADS CORE	

Part Name

Description Local

Loca	0N	Description	Part Name	Part No.	Symbol No.
				RS	ОТН
			EMI FILTER	CE42142-2227	LC1101
			EMI FILTER	CE42142-103Z	LC1601
			TUNER	CEEK481-A03	TU1001
	J	0.0Ω 1/10W	MG R	MRSA02J-OROX	W1001-02
			CRYSTAL	CE40749-001Z	X1311
			CRYSTAL	CE40668-001Z	X1312
			CRYSTAL	CE42546-001Z	X1601
			CER.RESONATOR	CST8.00MTW	X1701
			CRYSTAL	QAX0351-001Z	X1752
	J	0.0Ω 1/10W	MG R	NRSA02J-OROX	Y1301-06
	J	0.0Ω 1/10W	MG R	MRSA02J-OROX	Y1312-13
	J	6.8kΩ 1/10W	MG R	NRSA02J-682X	Y1314
	J	0.0Ω 1/10W	MG R	MRSA021-OROX	Y1315-17
	J	0.0Ω 1/10W	MG R	MRSA021-OROX	Y1324-26
	J	0.0Ω 1/10W	MG R	NRSA021-OROX	Y1328
	J	0.0Ω 1/10W	MG R	NRSA02J-0R0X	Y1401
	J	0.0Ω 1/10W	MG R	NRSA02J-OROX	Y1502-05
	J	0.0Ω 1/10W	MG R	NRSA02J-OROX	Y1651-52
	j	0.0Ω 1/10W	MG R	NRSA02J-OROX	Y1654
	j	0.0Ω 1/10W	MG R	MRSA02J-OROX	Y1701-03
	j	0.0Ω 1/10W	MG R	WRSA02J-OROX	Y1750-53

POWER / DEF PW BOARD ASS'Y (SMD-2003A-U2)

Δ	Symbol No.	Part No.	Part Name	Description	n Loca
_	RESI	STOR			
	R2451	QRE141J-272Y	C R		,
	R2455	ORE141J-102Y	CR	1kΩ 1/4W .) :
	R2456	ORE141J-473Y	CR	47kΩ 1/4W .	
	R2457	ORE141J-103Y	CR) :
	R2458	ORA14CF-1002Y	MF R	10kΩ 1/4W	F :
	R2459	ORE141J-391Y	CR	390Ω 1/4W	j
	R2461	ORE141J-102Y	CR	1kΩ 1/4W	J
	R2463	QRG029J-820	OM R	82 Ω 2W	J
	R2465	QRE141J-103Y	CR		j
	R2501	QRE141J-471Y	CR		J
	R2502	ORE141J-123Y	CR		J
	R2503	ORE121J-152Y	(R		j
	R2504-05	ORGO39J-272	OM R		j
	R2506	ORE121J-5R6Y	CR	5.6Q 1/2W	j
	R2507	QRE141J-152Y	CR		J
	R2509	QRE141J-563Y	C R	56kΩ 1/4W	J
	R2510	QRE141J-333Y	CR		j
	R2511	QRE141J-102Y	CR		j
	R2522	QRE121J-471Y	CR		j
Δ	R2551	QRZ9017-4R7	FR		J
Δ	R2552	QRZ9021-1R0	FUSI.RESISTOR		J
Δ	R2553	QRZ9021-1R0	FUSI.RESISTOR		}
	R2554	QRE141J-272Y	C R	2.7kΩ 1/4W	J
	R2555	QRE141J-822Y	C R	8.2kΩ 1/4W	J
	R2557	QRE121J-272Y	C R		J
	R2581	QRF154K-4R7	UNF R		K
	R2582	ORE141J-821Y	CR	820Ω 1/4W	j
	R2583	QRE121J-682Y	C R	6.8kΩ 1/2W	J
	R2584	QRE141J-183Y	C R	18kΩ 1/4W	J
	R2585	ORE141J-222Y	CR	2.2kΩ 1/4W	J
	R2586	ORA14CF-7501Y	MF R	7.5kΩ 1/4W	F



Symbol No.	Part No.	Part Name	Description Local
RES	ISTOR		
R2587	QRA14CF-2201Y	MF R	2.2kΩ 1/4W F #
R2588	ORE141J-103Y	CR	10kΩ 1/4W J *
R2901	QRF104K-3R9	UNF R	3.9Ω 10₩ K *
R2901 R2902	QRE121J-331Y	C R	330Ω 1/2W J *
R2902 R2903-04	QRE121J-474Y	CR	470kΩ 1/2W J *
	QRE1213-4747 QRL039J-823	DM R	82kΩ 3W J *
R2905		DM R	82KΩ 3W J *
R2906	QRG039J-683		58KΩ 3W J 2,2 Ω 1/4H J *
R2907	QRZ9017-2R2	FUSI.RESISTOR	
R2908	QRE121J-152Y	C R	1.5kΩ 1/2W J *
R2909	QRT0291-R39	MF R	0.39Ω ZW J
R2910	QRM059J-R22	MP R	0.22Ω SW J *
R2911	QRE121J-681Y	C R	680Ω 1/2W J
R2912	QRE121J-332Y	C R	3.3kΩ 1/2W J *
R2913	QRL039J-823	OM R	82kQ 3W J
R2923	ORE1211-102Y	C R	1kQ 1/2W J
R2923 R2951	QRE1213-1027 QRF074J-102	UNFR	1kQ 7W J
	•		
R2952	QRG0291-103	OM R	10kΩ 2W J 4 18kΩ 2W J 4
R2953	QRG029J-183		18KΩ 2W J 4
R2954	QRE141J-330Y	C R	
R2955	QRE141J-681Y	CR	00011 1/48 3
R2956	QRX0291-R47	MF R	0.47Ω 2W J
R2957	ORG029J-100	OM R	10 Ω 2W J
R2960	QRE141J-153Y	C R	15kΩ 1/4W J
R2961	QRE141J-182Y	Č Ř	1.8kΩ 1/4W J
	•	C R	15kΩ 1/4W J
R2962	QRE141J-153Y QRE141J-682Y	C R	6.8kΩ 1/4W J
R2963			6.8KΩ 1/4W J 10kΩ 1/4W J
R2968	QRE141J-103Y	C R	
R2969	QRE141J-682Y	C R	
R2970	QRE141J-822Y	C R	8.2kQ 1/4W J
R2971	QRE141J-682Y	C R	6.8kΩ 1/4W J
R2983	QRE141J-122Y	CR	1.2kΩ 1/4W J
R2984	QRE141J-104Y	ČŘ	100kΩ 1/4W J
R2985-86	QRE141J-103Y	C R	10kΩ 1/4W J
R2985-86 R2987	QRE121J-680Y	CR	68Ω 1/2W J
R2987 5 R2991	QRE121J-680Y QRZ0057-825	CR	8.2MΩ 1W J
- neJ31	4-44431-073	- "	
CAP	ACITOR	2	
			47pF 50V J
C2451	QCS31HJ-470Z	C CAP.	
C2452	QFV71HJ-104Z	MF CAP.	
C2453	QETN1EM-476Z	E CAP.	47uF 25V M
C2455	QFLC1HJ-222Z	M CAP.	2200pF 50V J
C2456-57	QFM72DJ-152Z	M CAP.	1500pF 200V J
C2458	OEZ0471-226Z		4 74F 50V M
C2458 C2460	QFP31HJ-102Z	E CAP.	1000pF 50V J
C2461	QFLC1HJ-182Z	N CAP.	1800pF 50V J
		-	330pF 500V K
C2501	QCB32HK-331Z	C CAP.	330pF 500V K 0.01uF 200V K
C2502	QFM72DK-103	M CAP.	
C2503	QFV71HJ-224Z	MF CAP.	0.22µF 50V J
∆ C2521	QFZ0122-112	MPP CAP.	1100pf1.8kVH ±3%
∆ C2522	QFZ0117-1202	MPP CAP.	0.012pF1.4kVH±2.5%
C2523	QFM72DK-393	M CAP.	0.039uF 200V K
∆ C2524	OFP32GJ-223	PP CAP.	0.022µF 400V J
C2525	QFZ0194-914	MPP CAP.	0.91µF 250V J
		MPP CAP.	0.47uF 250V J
C2526	QFZ0194-474		
C2529	QCB32HK-561Z	C CAP.	
C2532	QETM2CM-227	E CAP.	*****
C2551	QCB32HK-152Z	C CAP.	1500pF 500V K
C2552	QETN1CH-108Z	E CAP.	1000µF 16V M
C2553	QCB32HK-152Z	C CAP.	1500pF 500V K
C2554	QETN1CH-108Z	E CAP.	1000µF 16V M
C2555	QENC1HM-335Z	BP E CAP.	3.3µF 50V M
	•		1000pF 500V K
C2556	QCB32HK-102Z 0FTN2FM-106Z	C CAP. E CAP.	1000pF 500V K 10uF 250V M
C2557	QETM2EM-106Z	E CAR.	
C2581	QETN1CH-107Z	E CAP.	100µF 16V M 47µF 25V M
	QETN1EM-476Z	E CAP.	
C2582			
C2582 C2583	QETN2AM-106Z	E CAP.	10μF 100V M

∆ Symbol No.	Part No.	Part Name	Description Local
CAPA	ACITOR		
(2584	OETNIAH-227Z	E CAP.	220uF 10V N *
C2585	QFZ0194-534	MPP CAP.	0.53µF 250V J
∆ C2901	QFZ9040-473	HF CAP.	0.047µFAC275V M *
∆ C2902	QCZ9054-472	C CAP.	4700pFAC250V Z *
△ C2903	QCZ9054-472	C CAP.	4700pFAC250V Z * 4700pFAC250V Z *
∆ C2904	QCZ9054-472	C CAP.	
C2905	QEZ0199-227	E CAP.	220µF 400V M * 0.01µF 500V K *
C2906	QCB32HK-103	C CAP.	0.01µF 500V K *
C2907	QCZ0122-391	C CAP.	390pF 2kV K *
C2908	QETN1HM-476Z	E CAP.	47µF 50V H *
C2909	QCB31HK-182Z	C CAP.	1800pF 50V K *
C2910	QCZ0122-561	C CAP.	560pF 2000V K *
C2912	QCB31HK-561Z	C CAP.	560pF 50V K * 220uF 25V M *
C2921	QETN1EM-227Z	E CAP.	220µF 25V M * 10µF 50V M *
C2922-23	QETW1HM-106Z	E CAP. E CAP.	220µF 160V H *
C2951	QEZ0203-227		•
C2952	QEHQICM-228	E CAP.	2200µF 16V H *
C2953	QEHQ1CH-228	E CAP.	2200ki 201
C2954	QEHQ1CM-228	E CAP. E CAP.	2200µF 16V M * 470µF 16V M *
C2955	QEHRICM-477Z	E CAP.	2200uF 35V H *
C2956 C2957-58	QEHQ1VM-228 QETM1EM-338	E CAP.	3300µF 25V M *
C2959-60	OCB32HK-102Z	C CAP.	1000pF 500V K *
C2967	QEHQ1CH-228	E CAP.	2200µF 16V H
62060	QCZ0120-104Z	C CAP.	0.1µF 25V Z *
C2968 C2970	QCZ0120-1042 QETN1CH-227Z	E CAP.	220µF 16V M 4
C2972-73	QEHRIAM-477Z	E CAP.	470µF 10V M *
C2974-75	0EZ0256-128	E CAP.	1200µF 10V H
	QETNIAM-227Z	E CAP.	220µF 10V H 4
C2976			
C2977	QFV71HJ-684Z	MF CAP.	0.68μF 50V J 4
C2977 C2978	QFV71HJ-684Z QCZ0122-471	MF CAP. C CAP.	0.68µF 50V J 4 470oF 2000V K
C2977 C2978 Δ C2991 Δ C2992	QFV71HJ-684Z QCZ0122-471 QCZ9079-332 QCZ9079-471	MF CAP. C CAP. C CAP. C CAP.	0.68μF 50V J 4
C2977 C2978 ▲ C2991 ▲ C2992 T R A T2501 T2511 ▲ T2551 ▲ T2501	QFV71HJ-684Z QC2012Z-471 QC29079-332 QC29079-471 N S F O R M QQR0882-001 QQR0766-001 CETM026-008 CETS129-001J4	NF CAP. C CAP. C CAP. C CAP. C CAP. HERE C CAP. HOR. DEF. TRANSF. FBT. SW TRANSF.	0.68µF 50V J 4 470pF 2000V K 4 3300pFAC250V K
C2977 C2978 ▲ C2991 ▲ C2992 TRA T2501 T2521 ▲ T2551	0FV71HJ-684Z QC2012Z-471 QC29079-332 QC29079-471 N S F O R M QQR088Z-001 QQR088Z-001 CETM026-008	WF CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. PINC. TRANSF. FBT	0.68µF 50V J 4 470pF 2000V K 4 3300pFAC250V K 4 470pFAC250V K 4
C2977 C2978	GP71HI-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QR0882-001 QR0706-001 CETW026-008 CETS129-00114 Q070147-001	HF CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. FINC. TRANSF. FBT SM TRANSF. POWER TRANSF.	0.68µF 50V J 4 470pF 2000V K 4 3300pFAC250V K 4 470pFAC250V K 4
C2977 C2978	GPT/INI-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QQR082-001 QQR0706-001 CETH026-008 CET15129-00114 QQT0147-001 L 0043AJ-332	HF CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. FINC. TRANSF. FBT SM TRANSF. POWER TRANSF.	0.68µF 50V J 4 470pF 2000V K 4 3300pFAC250V K 4 470pFAC250V K 4
C2978	GP71HI-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QR0882-001 QR0706-001 CETW026-008 CETS129-00114 Q070147-001	HF CAP. C CAP. C CAP. C CAP. C CAP. HOR.DEF.TRANSF. PINC.TRANSF. POWER TRANSF. CHOKE COIL CHOKE	0.68uF 50V J 4 470pF 200V K 4 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C2977 C2978	GY71HJ-5442 QC2012-471 QC29079-332 QC29079-471 N S F O R M Q00882-001 Q00766-001 CETN26-009 CETS129-00114 Q010147-001 L QQ.43AJ-332 QQ.2020-801 Q00951-002 QQ.2018-560	HF CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. PINC. TRANSF. PST TRANSF. POWER TRANSF. CHOKE COIL CHOKE COIL LINEARTIY COIL HEATER CHOKE	0.68UF 50V J 4 470pF 200V K 4 3300pFAC250V K 4 470pFAC250V K 4 (SERVICE)
C1977 C1978 C1978 C1991	GY71NI-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QQR082-001 CETH026-008 CET5129-00114 Q010147-001 L Q04.13A1-332 Q04.202-801 Q06951-002 Q04.018-560 Q04.018-1002	HF CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. PINC. TRANSF. FIT SM TRANSF. POWER TRANSF. CHOKE COIL LINEARITY COIL HEATER CHOKE CHOKE COIL ECHOKE COIL LINEARITY COIL HEATER CHOKE CHOKE COIL ECHOKE COIL ECHOKE COIL	0.68uF 50V J 4 470pF 200V K 4 3300pFAC250V K 4 470pFAC250V K 5
C1977 Δ (2978 Δ (2991 Δ (2992) TRA T1501 Δ (72901 Δ (GP/71H-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QQR082-001 QQR0766-001 CETH026-008 CET15129-00114 QQT0147-001 L QQQ2020-801 QQR0951-002 QQQ2018-560 QQL018-560 QQL018-600	HF CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. PINC. TRANSF. FBT SN TRANSF. POWER TRANSF. CHOKE COIL	0.68uF 50V J 4 470pF 200V K 4 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C1977 C1978 C1978 C2991 C1991 T RA T2501 T2501 T2501 T2501 T2501 T2921 CO I L2451 L2452 L2552 L2551 L2901-02 L2951 L2951-54	GY71H1-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QR0882-001 CETH026-008 CET5129-00114 QQT0147-001 L QQ09961-002 QQ0218-560 QQ14018-1002 QQU218-560 QQ1018-600 QQ1018-600 QQU218-600 QQU218-600 QQU218-600	HF CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. FINC. TRANSF. FINC. TRANSF. FOWER TRANSF. CHOKE COIL LINEARITY COIL HEATER CHOKE CHOKE COIL HEATER CHOKE COIL	0.68uF 50V J 4 470pF 200V K 4 3300pFAC250V K 4 470pFAC250V K 5
C1977 Δ (2978 Δ (2991 Δ (2992) TRA T1501 Δ (72901 Δ (GP/71H-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QQR082-001 QQR0766-001 CE19026-008 CE15129-00114 QQT0147-001 L QQQ2020-801 QQR0951-002 QQQ2018-560 QQL018-560 QQL018-600	HF CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. PINC. TRANSF. FBT SN TRANSF. POWER TRANSF. CHOKE COIL	0.68uF 50V J 4 470pF 200V K 4 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C1977 C1978 C1978 C2991 C1991 T RA T2501 T250	GY71H1-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QR0882-001 CETH026-008 CET5129-00114 QQT0147-001 L QQ09961-002 QQ0218-560 QQ14018-1002 QQU218-560 QQ1018-600 QQ1018-600 QQU218-600 QQU218-600 QQU218-600	HF CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. FINC. TRANSF. FINC. TRANSF. FOWER TRANSF. CHOKE COIL LINEARITY COIL HEATER CHOKE CHOKE COIL HEATER CHOKE COIL	0.68uF 50V J 4 470pF 200V K 4 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C1977	GV71H1-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QQR082-001 CEFH026-008 CET5129-00114 Q010147-001 L QQL43AJ-332 QQL2020-801 QQ09951-002 QQL2018-460 QQL208-4202 QQR0518-001 QQL2018-460 QQL26M-2202	NF CAP. C CAP. C CAP. C CAP. C CAP. HOR.DEF.TRANSF. PINC.TRANSF. PST SW TRANSF. POWER TRANSF. CHOKE COIL CHOKE COIL LINEARTY COIL MEATER CHOKE COIL HEATER CHOKE	0.68uF 50V J 4 470pF 200V K 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C1977 C1978 C1978 C1991	GY1918-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QR0882-001 CETH026-008 CET5129-00114 Q010147-001 L QQL43AJ-332 QQL020-801 QQ00918-560 QQL43AJ-332 QQL020-801 QQ00918-500 QQL018-460 QQL56AX-2202 QQL018-460 QQL26AX-2202	NF CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. PINC. TRANSF. POWER TRANSF. POWER TRANSF. CHOKE COIL LINEARTIY COIL HEATER CHOKE COIL	0.68uF 50V J 4 470pF 200V K 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C1977 C1978 C1978 C2971 C1978 C2991 T RA T2501 T2521 T252	GY71HJ-5442 QC2012-471 QC29079-332 QC29079-471 N S F O R M QR0882-001 QR0706-001 CETR026-008 CETS129-00114 QR10147-001 L QQ.43AJ-332 QQ.2018-350 QQ.401X-1002 QQ.2018-460 QQ.126AX-2202 QR0518-001 QQL2018-460 QQL2018-460 QQL2018-460	NF CAP. C CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. PINC. TRANSF. PINC. TRANSF. POWER TRANSF. CHOKE COIL CHOKE COIL LIMEATER CHOKE COIL CHOKE COIL CHOKE COIL HEATER CHOKE COIL	0.68uF 50V J 4 470pF 200V K 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C1977 C2978 C2978 C2991	GY11H1-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QQR0882-001 CETH026-008 CET5129-00114 Q010147-001 L QQL41AL-332 QQL202-801 QQ09951-002 QQL2018-560 QQL401K-1002 QQL2018-460 QQL26KK-2202 QQR0518-001 QQL218-460 QQL26KK-2202	HF CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. FINC. TRANSF. FINC. TRANSF. FOMER TRANSF. CHOKE COIL LINEARITY COIL HEATER CHOKE COIL SI. DIODE SI. DIODE SI. DIODE	0.68uF 50V J 4 470pF 200V K 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C1977 C1978	GY71HJ-5442 QC2012-471 QC29079-332 QC29079-471 N S F O R M Q00882-001 Q00706-001 CETRU26-008 CETS129-001J4 Q010147-001 L QQ.43AJ-332 QQ.2018-560 QQ.4018-560 QQ.4018-560 QQ.4018-460 QQ.2018-460 QQ.2018-460 QQ.2018-460 QQ.2018-460 QQ.2018-461 SQ.2028-7202 BY0330-T3 15581-T5 155133-T2	HF CAP. C CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. PINC. TRANSF. FIT SM TRANSF. POWER TRANSF. CHOKE COIL LINEARITY COIL HEATER CHOKE COIL FERER	0.68uF 50V J 4 470pF 200V K 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C1977 C1978	GY71HJ-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M Q00882-001 Q00706-001 CETRU26-008 CETS129-001J4 Q010147-001 L QQL43AJ-332 QQL2018-560 QQL2018-560 QQL2018-460 QQ	HF CAP. C CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. PINC. TRANSF. FIT SM TRANSF. POWER TRANSF. CHOKE COIL LINEARITY COIL HEATER CHOKE COIL FERER	0.68uF 50V J 4 470pF 200V K 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C1977 C1978	GY71HJ-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QR0882-001 CETH026-008 CET5129-00114 Q010147-001 L Q020147-001 Q02018-560 Q04018-1002 Q04018-560 Q04018	NF CAP. C CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. FINC. TRANSF. FINC. TRANSF. FOWER TRANSF. CHOKE COIL CHOKE COIL LINEARITY COIL HEATER CHOKE COIL CHOKE COIL HEATER CHOKE COIL CHOKE COIL HEATER CHOKE COIL CHOKE COIL HEATER CHOKE COIL SI. DIODE	0.68uF 50V J 4 470pF 200V K 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C1977	GY1918-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QR0882-001 CETH026-008 CET5129-00114 Q010147-001 L QQL43AJ-332 QRL2020-801 QQC9018-560 QQL208-1-002 QQL2018-460 QQL26M-2202 QQC018-460 QQL26M-2202 D E BY0330-T3 15581-T5 155133-T2 HT21159-T2 V11CA-C1 FM-3FU-F1 FM-9FU-F1 FM-9FU-F1 FM-9FU-F1	NF CAP. C CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. PINC. TRANSF. PINC. TRANSF. POWER TRANSF. CHOKE COIL CHOKE COIL CHOKE COIL HEATER CHOKE CHOKE COIL HEATER CHOKE COIL SI. DIODE	0.68uF 50V J 4 470pF 200V K 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C1977 C1978 C1978 C2978 C2991 T RA T2501 T250	GY71HJ-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QR0882-001 CETH026-008 CET5129-00114 Q010147-001 L Q020147-001 Q02018-560 Q04018-1002 Q04018-560 Q04018	NF CAP. C CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. FINC. TRANSF. FINC. TRANSF. FOWER TRANSF. CHOKE COIL CHOKE COIL LINEARITY COIL HEATER CHOKE COIL CHOKE COIL HEATER CHOKE COIL CHOKE COIL HEATER CHOKE COIL CHOKE COIL HEATER CHOKE COIL SI. DIODE	0.68uF 50V J 4 470pF 200V K 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)
C1977	GY1918-5842 QC2012-471 QC29079-332 QC29079-471 N S F O R M QR0882-001 CETH026-008 CET5129-00114 Q010147-001 L QQL43AJ-332 QRL2020-801 QQC9018-560 QQL208-1-002 QQL2018-460 QQL26M-2202 QQC018-460 QQL26M-2202 D E BY0330-T3 15581-T5 155133-T2 HT21159-T2 V11CA-C1 FM-3FU-F1 FM-9FU-F1 FM-9FU-F1 FM-9FU-F1	NF CAP. C CAP. C CAP. C CAP. C CAP. C CAP. HOR. DEF. TRANSF. PINC. TRANSF. PINC. TRANSF. POWER TRANSF. CHOKE COIL CHOKE COIL CHOKE COIL HEATER CHOKE CHOKE COIL HEATER CHOKE COIL SI. DIODE	0.68uF 50V J 4 470pF 200V K 3300pF AC 250V K 4 470pF AC 250V K 4 (SERVICE)

Δ	. Symbol No.	Part No.	Part Name	Description	Local
	DIO	DE			
	D2555-56	AYD33G-T3	ST DINDE		
	02581		ZENER DIODE		
	D2582	MTZJ7.58-T2	ZENER DIODE		
	D2583	MTZJ7.5S-T2	ZEWER DIODE		
	D2584	BYD33G-T3	SI.DIODE		
Δ			*		
	02902		*		
Δ	02903	BYD33D-T3	SI.DIODE		*
	02904	RYD33D-T3	ST DTODE		
	02905				
	02907	MTZJ15B-T2			
	02921-24				
	02925		ZENER DIODE		
	D2951 D2953	RU48-F1 EMY_C125	31.0100E		*
	D2954				
	02955		SI.DIODE		
	D2956-57 D2958				
	02959	RK44-LFT4	SI.DIODE		-
	02960	MTZJ33B-T2	ZENER DIODE		
	D2961-62				*
	D2964-66 D2981-82				*
	06201-06	133133-17	J1. DIODE		٠
_	TRAI	NSISTO	R		
	Q2452 Q2501		F.E.T.		
	Q2502				
Δ	Q2521	2SC5552-LT	SI.TRANSISTOR	H.OUT	-
	Q2581	2SA949/Y/Z1-T	SI.TRANSISTOR		*
	Q2582		DIGI.TRANSISTOR		*
	Q2583 Q2921				*
	02981-82				•
	45307.05	53013/10/-1	SELTIMINATES (VIII		•
_	IC				
	IC2451	BA10393	IC		
	IC2901 IC2951	STR-F6668B	IC		
	IC2951 IC2952		I.C.(MONO-ANA)		
	IC2953	SI-80S0S	I.C. (HYBRID)		-
	IC2954	BA033T	I.C. (MONO-ANA)		
	IC2955 IC2956	UPCZ4U9AHF RANRT	1.C. (MUNU-ANA)		
	101330	uni(0)			•
_	отні	ERS			
	CP2953				*
7	CP2954				*
٨	CP2955 K2521			4A	
	K2523-25				
	K2901-02				
	K2951		FERRITE BEADS		
	K2952	CE41433-001Z	BEADS CORE		*
	K2953				*
Ā	PC2901				*
1	RY2981 TH2901	QSK0086-001 CEKP002-003	RELAY W.P.THERMISTOR		
4	11-2702	CF4L005-003	W.I.INERNIJIUN		•
_					_
_					

Δ	Symbol No.	Part No.	Part Name	Description	Local
	RESI	STOR			
	R3101	QRE141J-272Y	C R C R	2.7kΩ 1/4W J	
	R3102	QRE141J-153Y	C R	15kΩ 1/4W J	
	R3103 R3104	QRE141J-152Y ORE141J-680Y	C R C R	1.5kΩ 1/4W J 68Ω 1/4W	
	R3104 R3105	QRE141J-221Y	C R C R	68Ω 1/4W J 220Ω 1/4W J	
Δ	R3106	ORJ146J-100X	CR	10Ω 1/4W J	
_	R3107-08	QRE141J-470Y	C R	47Ω 1/4W J	
Δ	R3109	QRZ9021-561	FUSI.RESISTOR	560 Ω 1W J	
	R3110	QRE141J-122Y	C R	1.2kΩ 1/4W J	
	R3111	QRE141J-390Y	C R C R	39Ω 1/4W J	
	R3112	QRE141J-2R7Y	C R	2.7Ω 1/4W J	
	R3113-14	QRE141J-563Y	C R C R	56kΩ 1/4W J	
	R3115 R3116	QRE141J-122Y QRE141J-2R7Y	CR	1.2kΩ 1/4W J 2.7Ω 1/4W J	
	R3117	QRE141J-390Y	CR	39Ω 1/4W J	
	R3118	QRE141J-121Y	ČŘ	120Ω 1/4W J	
	R3119	ORL029J-391	OM R	390Ω 2W J	
	R3130	QRE141J-101Y	C R	100Ω 1/4W J	
	R3204-06	QRE141J-152Y	C R	1.5kΩ 1/4₩ J	
	R3207	QRE141J-562Y	Č R	5.6kΩ 1/4W J	
	R3208	QRE141J-123Y	C R	12kΩ 1/4W J	
	R3211	QRE141J-334Y	C R C R	330kΩ 1/4₩ J	
	R3223-25 R3227	QRE141J-182Y QRE141J-272Y	C R C R	1.8kΩ 1/4W J 2.7kΩ 1/4W J	
	R3228	QRE141J-822Y	C R	8.2kΩ 1/4W J	
	R3229-31	ORGO1GJ-823	OH R	82kQ 1W J	
	R3232-34	QRE141J-332Y	C R	3.3kΩ 1/4W J	
	R3235-37	QRC121K-152Z	COMP.R	1.5kΩ 1/2W K	
	R3239	QRZ0107-474Z	CR	0.47μF 1/2W K	
	R3240	QRZ0107-102Z	C R	15 Ω 1/2W K	
	R3241 R3301-02	QRZ0107-105Z QRE121J-474Y	C R C R	15 Ω 1/2W K 470kΩ 1/2W J	
	R3303-04	QRE141J-223Y	C R	22kΩ 1/4W J	. 4
	R3305	ORE141J-562Y	C R	5.6kΩ 1/4W J	
	R3306	QRE141J-392Y	CR	3.9kΩ 1/4W J	
	R3307	QRE141J-101Y	C R	100Ω 1/4₩ J	*
	R3308	QRE141J-471Y	C R C R	470Ω 1/4W J	*
	R3309 R3310	QRE141J-120Y QRE141J-331Y	C R C R	12Ω 1/4W J 330Ω 1/4W J	:
	R3311-12	QRE141J-472Y	CR	4.7kQ 1/4W J	·
	R3313	QRE141J-102Y	C R	1kΩ 1/4W J	
_	CAPA	CITOR			
	C3101	QETN1HM-106Z	E CAP.	10µF 50V M	
	C3103	QETN1HH-335Z	E CAP.	3.3µF 50V M	
	C3104	QETN1CH-107Z	E CAP.	100µF 16V M	
	C3105	QCS31HJ-101Z	C CAP.	100pF 50V J	
	C3106	QCS31HJ-181Z	C CAP.	180pF 50V J	
	C3107	QETN2CM-106Z	E CAP.	10µF 160V M	
	C3108-09 C3110	QCB32HK-472Z QETN2CM-106Z	C CAP. E CAP.	4700pF 500V K 10μF 160V M	:
	C3111-12	QETN1AM-107Z	E CAP.	100µF 10V M	
	C3113	QETHIAM-337Z	E CAP.	330µF 10V M	
	C3114	QCS32HJ-470Z	C CAP.	47pF 500V J	
	C3115	QCS31HJ-5R0Z	C CAP.	5.0pF 50V J	
	C3118	QENC1HM-106Z	BP E CAP.	10μF 50V M	*
	C3201-03	QCS31HJ-8R0Z	C CAP.	8.0pF 50V J	
	C3204 C3205	QCZ0120-104Z QCZ0120-104Z	C CAP. C CAP.	1 Ω 25V Z 1 Ω 25V Z	:
	C3206	OCZ0120-104Z	C CAP.	1 Ω 25V Z	
	C3207-09	OETN1EM-476Z	E CAP.	47µF 25V M	:
	C3210-12	QFK62EK-104Z	MM CAP.	0.1µF 250V K	
	C3213-15	QCS31HJ-181Z	C CAP.	180pF 50V J	
	C3216	QETN1CH-107Z	E CAP.	100µF 16V M	
	C3218	QETM2EM-336	E CAP.	33µF 250V M	

Description Local

1.2kg 1/10w J
3.9kg 1/10w F
130kg 1/10w F
100g 1/10b J
56kg 1/10b J
56kg 1/10b J
1kg 1/10b J
1kg 1/10b J
1kg 1/10b J
10kg 1/10b J

1kΩ 1/10W J
560Ω 1/10W J
1kΩ 1/10W J
0.0Ω 1/10W J
560Ω 1/10W J
100Ω 1/10W J
100Ω 1/10W J
150Ω 1/10W J
1kΩ 1/10W J

22Ω 1/10W J 1000 1/10W J 470Ω 1/10W J 0.00 1/10W J 1.2kΩ 1/10W J 4.7kΩ 1/10W F 33kΩ 1/10W F 0.0Ω 1/10W J

560Ω 1/10N J 100Ω 1/10N J 150Ω 1/10N J 1KΩ 1/10N J 22Ω 1/10N J 100Ω 1/10N J

470Ω 1/10W J 1.2kΩ 1/10W J

4.7kΩ 1/10W F 33kΩ 1/10W F 0.0Ω 1/10W J * 560Ω 1/10W J * 100Ω 1/10W J * 150Ω 1/10W J *

1kΩ 1/10W J * 22Ω 1/10W J *

100Ω 1/10W J *
470Ω 1/10W J *
1.2kΩ 1/10W J *
4.7kΩ 1/10W F
33kΩ 1/10W F
0.0Ω 1/10W J *

390Ω 1/10W J *

330 1/10W J • 1.2KG 1/10W J •

AV-28WZ4EP AV-28WZ4EPS

Δ	Symbol No.	Part No.	Part Name	Description	Local
_	CAPA	ACITOR			
	C3219 C3221 C3301 C3302	QFZ0097-223 QETN2EM-1062 QETN1CM-107Z QFLC1HJ-103Z	MM CAP. E CAP. E CAP. M CAP.	0.022μF 1250V K 10μF 250V M 100μF 16V M 0.01μF 50V J	:
_	COI	-			
	L3201-03 L3301	QQL01BK-4R7Z QQL26AJ-102Z	COIL	4.7µH 1µH	•
_	DIO	DE .			
	D3101-02 D3151 D3204-06 D3208-10 D3301 D3302-03	RH15-T3 155133-T2 EU01N-T2 15R124-400A-T2 15S252-T2 15S133-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIOD€		*
-	TRAI	NSISTO	R		
	Q3102-03 Q3104 Q3105 Q3106 Q3301 Q3302 Q3303 Q3304-05	25C3311A/QR/-T 25A1309A/QR/-T 25A1837 25C4793 25A1015/YG/-T 25C2555/Y/-T 25A1015/YG/-T 25C33311A/QR/-T	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR		* * * * * * * * * * * * * * * * * * * *
_	IC				
	IC3201-03	TDA6111Q	I.C.(MONO-ANA)		•
-	отні	ERS			
Δ	K3101-04 K3105 S63201-03 SK3001	CE41492-0012 CE41433-0012 CE42447-501 CE42535-001J1	CHOKE COIL BEADS CORE ARRESTOR C.R.T.SOCKET		*

AUDIO PW BOARD ASS'Y (SMD-6002A-U2) Refer to PARTS LIST in page 46 for this P.W. board.
FRONT CONTROL PW BOARD ASS'Y (SMD-8002A-U2) Refer to PARTS LIST in page 47 for this P.W. board.
DOLBY PW BOARD ASS'Y (SMD0D001A-U2) Refer to PARTS LIST in page 47 for this P.W. board.
IF PW BOARD ASS'Y (SMD0F001A-U2) Refer to PARTS LIST in page 49 for this P.W. board.
AV TERMINAL PW BOARD ASS'Y (SMD0J001A-U2) Refer to PARTS LIST in page 51 for this P.W. board.
SUB MICON & AUTO PANORAMA PW BOARD ASS'Y (SMD0W001A-U2) Refer to PARTS LIST in page 51 for this P.W. board.

5	ymbol No.	Part No.	Part Name	Description	Local	▲ Symbol No.	Part No.	Part Nam
	RESI	STOR	· · · · · · · · · · · · · · · · · · ·			RESI	STOR	
D	0001-02	WRSA02 J-101X	MG R	100Ω 1/10W J		R0183-84	NRSA02J-122X	MG R
	0001-02	NRSA02J-222X	MG R	2.2kΩ 1/10W J		R0185	NRSA02F-392X	MG R
	0005	NRSA02J-472X	NG R	4.7kΩ 1/10W J		R0186	NRSA02F-332X	MG R
	0101	NRSA02J-101X	MG R	100Ω 1/10W J		R0187	NRSA02J-101X	MG R MG R
	0102	NR5A02J-102X	MG R	1kΩ 1/10W J		R0188 R0189	NRSA02J-563X NRSA02J-470X	MG R MG R
	0103	NRSA02J-331X	MG R	330Ω 1/10W J	*	R0190	MRSA02J-102X	MG R
	0104 0105	NRSA02J-222X NRSA02J-473X	MG R MG R	2.2kΩ 1/10W J 47kΩ 1/10W J	*	R0191	NRSA02J-223X	MG R
	0106	MRSA02J-273X	MG R	27kΩ 1/10W J		R0192	NRSA02J-220X	MG R
	0107	NRSA02J-331X	MG R	330Ω 1/10W J		R0193	NRSA02J-104X	MG R
	0108	NRSA02J-181X	MG R	180Ω 1/10W J		R0201-16	NRSA02J-101X	MG R MG R
R	0109-10	NRSA02J-101X	MG R	100Ω 1/10W J		R0221-36 R0303-18	NRSA02J-101X NRSA02J-101X	MG R
R	0111	NRSA02J-222X	MG R	2.2kΩ 1/10W J		R0401	NRSA02J-103X	MG R
	0112	NRSA02J-101X	MG R	100Ω 1/10W J		R0403	NRSA02J-223X	MG R
	0113 0114	NRSA02J-471X NRSA02J-221X	MG R MG R	470Ω 1/10W J 220Ω 1/10W J		R0404	NRSA02J-222X	MG R
	0121	NRSA02J-101X	MG R	100Ω 1/10W J		R0406	NRSA02J-102X	MG R
	0122	MRSA02J-102X	MG R	1kΩ 1/10W J		R0408	NRSA02J-561X	MG R
	0123	NRSA02J-331X	MG R	330Ω 1/10W J		R0409 R0411	NRSA02J-102X NRSA02J-0R0X	MG R
	0124	NRSA02J-222X	MG R	2.2kΩ 1/10W J		R0411	NRSA02J-561X	MG R
R	0125	NRSA02J-473X	MG R	47kΩ 1/10W J		R0413	NRSA02J-101X	MG R
	0126	NRSA02J-273X	MG R	27kΩ 1/10W J 270Ω 1/10W J		R0415	MRSA02J-151X	MG R
	0127 0128	NRSA02J-271X NRSA02J-181X	MG R MG R	270Ω 1/10W J 180Ω 1/10W J		R0417	NRSA02J-102X	MG R
	10129	NRSA02J-101X	MG R	100Ω 1/10W		R0418	MRSA02J-220X	MG R
	10130	NRSA021-330X	MG R	33Ω 1/10W		R0419	NRSA02J-101X	MG R
	0131	MRSA02J-222X	MG R	2.2kΩ 1/10W .	*	R0420	MRSA02J-471X MRSA02J-0R0X	MG R
	0132	WRSA02J-101X	MG R	100Ω 1/10W .		R0425 R0426	NRSA023-URUX	MG R
	0133	NRSA02J-471X	MG R	470Ω 1/10W .		R0426	NRSA025-122A	MG R
	0134	NRSA02J-221X	MG R	220Ω 1/10W .		R0429	NR5A02F-333X	MG R
	R0141 R0142	NRSA02J-101X NRSA02J-102X	MG R MG R	100Ω 1/10W . 1kΩ 1/10W .		R0431	WRSA02J-OROX	MG R
	0143	NRSA02J-331X	NG R	330Ω 1/10W .		R0432	NRSA02J-561X	MG R
	R0144	NRSA02J-222X	MG R	2.2kΩ 1/10W		R0433	NRSA02J-101X	MG R MG R
	R0145	NRSA02J-473X	MG R	47kΩ 1/10W .		R0435 R0437	MRSA02J-151X MRSA02J-102X	MG R
	R0146	NRSA02J-273X	MG R	27kΩ 1/10W .	*	R0438	NRSA02J-220X	MG R
-	R0147	NRSA02J-271X	MG R	270Ω 1/10W .		R0439	NRSA02J-101X	MG R
ł	R0148	NRSA02J-181X	MG R	180Ω 1/10W .		R0440	NRSA02J-471X	MG R
	R0149 R0150	MRSA02J-101X MRSA02J-150X	MG R MG R	100Ω 1/10W . 15Ω 1/10W .		R0441	NRSA02J-122X	MG R
				2.2kΩ 1/10W		R0442	NRSA02F-472X	MG R
	R0151	NRSA02J-222X NRSA02 I-101X	MG R MG R			R0443	MRSA02F-333X	MG R
	R0152 R0153	NRSA02J-471X	MG R			R0451	NRSA02J-OROX	MG R MG R
	R0154	NRSA02J-221X	MG R		*	R0452 R0453	NRSA02J-561X NRSA02J-101X	MG R
	R0155	NRSA02J-100X	MG R		*	R0455	NRSA02J-151X	MG R
	R0156	MRSA02J-122X	MG R			R0457	NRSA02J-102X	MG R
1	R0157	NRSA02J-560X	MG R		j *	R0458	NRSA02J-220X	MG R
	R0158	NRSA02J-680X	MG R			R0459	MRSA02J-101X	MG R
	R0159	NRSA02J-101X	MG R] * j *	R0460	NRSA02J-471X	MG R
	R0160 R0161	NRSA02J-333X NRSA02J-223X	MG R MG R		, .	R0461	NRSA02J-122X	MG R
	R0162	MRSAU2J-223X MRSAU2J-122X	MG R		, .	R0462 R0463	NRSAO2F-472X NRSAO2F-333X	MG R
	R0163	NRSA023-122X	MG R	180Ω 1/10W		R0471	NRSA02F-333X NRSA02J-0ROX	MG R
	R0164	NRSA02J-680X	MG R	68Ω 1/10W	j *	R0472	NRSA02J-391X	MG R
	R0165	NRSA02J-OROX	MG R	0.0Ω 1/10₩	j #	R0473	NRSA02J-101X	MG R
	R0171	NRSA02J-101X	MG R		-	R0475	NRSA02J-330X	MG R
	R0172	NRSA02J-102X	MG R			R0476	MRSA02J-122X	MG R
	R0173	NR5A02J-182X	MG R) * *	R0477	NRSA02J-102X	MG R
	R0174	NRSA02J-560X	MG R) * *	R0478	NRSA02J-220X	MG R
	R0175	NRSA02J-105X	MG R MG R) *] *	R0479	NRSA02J-101X	MG R
	R0176 R0177	NRSA02J-681X NRSA02J-104X	MG R		, ·	R0480	NRSA02J-221X	MG R MG R
	R0177	NRSA023-104X NRSA021-101X	MG R		, i	R0486 R0487	NRSAOZJ-683X NRSAOZJ-103X	MG R
	R0179	NRSA02J-471X	MG R		j *			
	R0180	NRSA02J-102X	MG R	2.00 17.00	j *	R0488 R0489	NRSAO2J-223X NRSAO2J-562X	MG R MG R
	R0181-82	NRSA02F-392X	MG R	3.9kΩ 1/10W	F			-

A Symbol Mo.	Part No.	Part Name	Description Loc
RES	ISTOR		
R0491-92	WRSA021-102X	MG R	11:0 1/10/
R0501	MRSA02J-563X	MG R	1kΩ 1/10W J
			56kΩ 1/10W J
R0504	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R0505 R0506	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R0507	NRSA02J-OROX	MG R	0.0Ω 1/10W J
R0512 R0514-15	NRSA02J-103X NRSA02J-682X	MG R MG R	10kΩ 1/10W J 6.8kΩ 1/10W J
R0516			
R0602-03	HRSA02J-OROX HRSA02J-680X	MG R MG R	0.0Ω 1/10W J 68Ω 1/10W J
R0604	ORN143J-221X	CR	220Ω · 1/4W J
R0606	NRSA02J-680X	MG R	68Ω 1/10W J
R0607-08	WRSA02J-OROX	MG R	0.0Ω 1/10W J
R0609	MRSA02j-100X	MG R	10Q 1/10W J
R0610	NRSA02J-OROX	MG R	0.0Ω 1/10W J
R0611	NRSA02J-100X	MG R	10Ω 1/10W J
R0612-13	NRSA02J-560X	MG R	56Ω 1/10W J
R0614	NRSA02J-100X	MG R	10Ω 1/10W J
R0615	MRSA02J-822X	MG R	8.2kΩ 1/10W J
R0616	HRSA02J-223X	MG R	22kΩ 1/10W J
R0704	MRSA02J-OROX	MG R	0.0Ω 1/10W J
R0705-06	NRSAO2J-123X	MG R	12kΩ 1/10W J
R0708	NRSA02J-123X	MG R	12kΩ 1/10W J
R0709	MRSA02J-103X	MG R	10kΩ 1/10W J
R0714	NRSA02J-123X	MG R	12kΩ 1/10W J
R0715	MRSAO2J-333X	MG R	33kΩ 1/10W J
R0716	NRSA02J-153X	MG R	15kΩ 1/10W J
R0717	MRSA02J-123X	MG R	12kΩ 1/10W J
R0718	MRSA02J-153X	MG R	15kΩ 1/10W J
R0719	NRSA02J-472X	MG R	4.7kΩ 1/10W J
R0720	NRSA02J-333X	MG R	33kΩ 1/10W J
R0721	NRSA02J-123X	MG R	12kΩ 1/10W J
R0723	NRSA02J-682X	MG R	6.8kΩ 1/10W J
R0724	HRSA02J-272X	MG R	2.7kΩ 1/10W J
R0726	MRSA02J-563X	MG R	56kΩ 1/10W J
R0727	MRSA02J-224X	MG R	220kΩ 1/10W J
R0731	MRSA02J-0R0X	MG R	0.0Ω 1/10₩ J
R0733	NRSA02J-154X	HG R	150kΩ 1/10W J
R0734 R0736	MRSAO2J-123X MRSAO2J-123X	MG R MG R	12kΩ 1/10W J 12kΩ 1/10W J
R0737	NRSA021-224X	MG R	
R0738	NRSA021-273X	MG R	220kΩ 1/10W J 27kO 1/10W I
R0739	NRSA02J-562X	MG R	C1 700 E1 2011 3
R0740	MRSA02J-582X	MG R	
R0741	NRSA02J-002X	MG R	6.8kΩ 1/10W J 22kΩ 1/10W J
R0742	NRSA02J-223X	MG R	
R0743	NRSA02J-683X	MG-R	220kΩ 1/10W 3 68kΩ 1/10W 3
R0744	NRSA02J-224X	MG R	220kΩ 1/10W J
R0745-46	NRSA02J-563X	HG R	56kΩ 1/10W J
CAPA	CITOR	-	
C0001	NEH71CM-476X	E CAP.	47µF 16V M
C0002	NCF21EZ-104X	C CAP.	0.1µF 25V Z
C0003	NEH71CH-476X	E CAP.	47µF 16V M
C0004	MCF21EZ-104X	C CAP.	0.1µF 25V Z
C0005	NEH71CH-476X	E CAP.	47µF 16V M
C0006	NCF21EZ-104X	C CAP.	0.1µF 25V Z
C0007	NEH71CH-476X	E CAP.	47µF 16V M
C0008	NCF21EZ-104X	C CAP.	0.1μF 25V Z
C0009	NDC21HJ-121X	C CAP.	120pF 50V J +
C0011	NDC21HJ-270X	C CAP.	27pF 50V J *
C0102	NDC21HJ-121X	C CAP.	120pF 50V J *
C0103	NDC21HJ-680X	C CAP.	68pF 50V J *
C0104	NENS1EM-106X	CHIP AL BP E CAP	10µF 25V M
C0105 C0106	NCF21HZ-224X NCF21EZ-104X	C CAP. C CAP.	0.22µF 50V Z *
			0.1µF 25V Z *

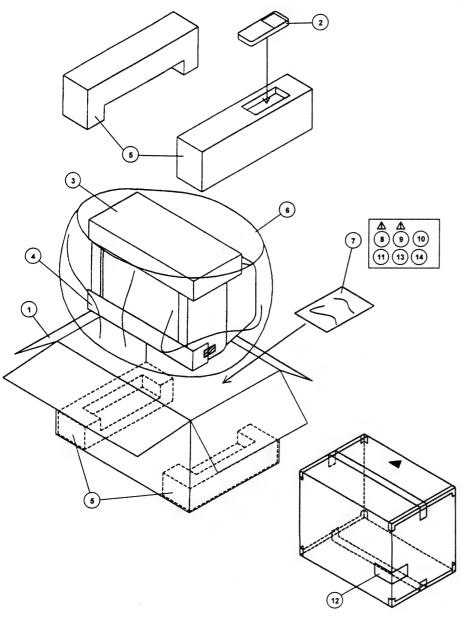
CAP	Part No.	Part Name	Description Lo
C0107	NOC21HJ-390X	C CAP.	39pF 50V J
C0108	NEH71CM-476X	E CAP. CHIP AL BP E CAP	47μF 16V M
C0109 C0110	NEN51HM-105X NCB21HK-103X	C CAP.	1μF 50V M 0.01μF 50V K
C0111	NDC21HJ-181X	C CAP.	180pF 50V J
C0112-14	NEH71CM-106X	E CAP.	10µF 16V M
C0122	NDC21HJ-121X	C CAP.	120pF 50V J
C0123	NOC21HJ-680X	C CAP.	68pF 50V J
C0124	NENSTHM-105X	CHIP AL BP E CAP	1μF 50V M
C0125 C0126	NCF21HZ-224X NCF21EZ-104X	C CAP. C CAP.	0.22μF 50V Z 0.1μF 25V Z
0142	NOC21HJ-121X	C CAP.	120pF 50V J
C0143	NOC21HJ-680X	C CAP.	68pF 50V J
C0144	NENS1HM-105X	CHIP AL BP E CAP	1µF 50V M
C0145	NCF21HZ-224X	C CAP.	0.22µF 50V Z
C0146	NCF21EZ-104X	C CAP.	0.1μF 25V Z
C0151 C0152	NCB21HK-103X OETNOJM-228Z	C CAP. E CAP.	0.01µF 50V K 2200uF 6.3V M
C0153	NCF21EZ-104X	C CAP.	2200μF 6.3V M 0.1μF 25V Z
CO154-55	NEH71HM-105X	E CAP.	1μF 50V M
0156-57	NCF21EZ-104X	C CAP.	0.1µF 25V Z
0161-62	NEH71CH-106X	E CAP.	10μF 16V M
0163	NCF21EZ-104X	C CAP.	0.1µF 25V Z
0164	NEH71CM-106X	E CAP.	10µF 16V M
.0165-80 .0181-82	NCF21EZ-104X NDC21HJ-8ROX	C CAP. C CAP.	0.1μF 25V Z 8.0pF 50V J
0191	NCF21EZ-104X	C CAP.	0.1µF 25V Z
0192	NEH71CH-106X	E CAP.	10µF 16V M
0193	NCB21HK-103X	C CAP.	0.01µF 50V K
0201-02	QETNOJM-477Z	E CAP.	470µF 6.3V H
0203-07 0208-09	NCF21EZ-104X NDC21HJ-150X	C CAP. C CAP.	0.1µF 25V Z
		-	15pF 50V J
:0301-19 :0401	NCF21EZ-104X NEH71CM-106X	C CAP. E CAP.	0.1μF 25V Z 10μF 16V M
0402	NCF21EZ-104X	C CAP.	0.1µF 25V Z
0403	WEH71CN-106X	E CAP.	10µF 16V M
0404	NCF21EZ-104X	C CAP.	0.1µF 25V Z
0405-06	NOC21HJ-120X	C CAP.	12pF 50V J
0408-13	NCB21HK-103X NCF21EZ-104X	C CAP. C CAP.	0.01µF 50V K 0.1µF 25V Z
0415	NEH71HM-105X	E CAP.	
0416	NEH71CH-106X	E CAP.	1μF 50V M 10μF 16V M
0417	NCF21EZ-104X	C CAP.	0.1µF 25V Z
0420	NEH71HM-105X	E CAP.	1μF 50V M
0422	WRSA02J-OROX	MG R	0.0Q 1/10W J
0424	NEH71HM-105X	E CAP.	1μF 50V M
0425 0426	MEH71CM-476X MCF21EZ-104X	E CAP. C CAP.	47µF 16V M 0.1µF 25V Z
0432	NRSA02J-OROX	MG R	0.0Ω 1/10W J
0434	NEH71HM-105X	E CAP.	1uF SOV M
0435	NCF21EZ-104X	C CAP.	0.1µF 25V Z
0452	NRSA02J-OROX	MG R	0.0Ω 1/10W J
0454	NEH71HM-105X	E CAP.	1μF 50V M
1455	MCF21EZ-104X	C CAP.	0.1μF 25V Z
3472 3474	NRSAO2J-OROX NEH71HM-105X	MG R E CAP.	0.0Ω 1/10W J 1μF 50V H
1475-76	NCF21EZ-104X	C CAP.	0.1uF 25V Z
1477	MDC21HJ-561X	C CAP.	560pF 50V J
501	MCB21HK-333X	C CAP.	0.033µF 50V K
504	MCB21HK-562X	C CAP.	5600pF 50V K
505-06	NCB21HK-393X	C CAP.	0.039µF 50V K
0507	NDC21HJ-101X	C CAP.	100pF 50V J
1601 1602	NCF21EZ-104X NEH71CM-476X	C CAP. E CAP.	0.1μF 25V Z 47μF 16V M
603	NCF21EZ-104X	C CAP.	0.1µF 25V Z
1605	NCF21EZ-104X	C CAP.	0.1µF 25V Z
606	NOC21HJ-681X	C CAP.	680pF 50V J
701	NCB21HK-102X	C CAP.	1000pF 50V K

_	100	ript	Des	Part Name	Part No.	Symbol No.
					ACITOR	CAP
	K	25V	0.15µF	C CAP.	NCB21EK-154X	C0706
	ĸ	25V	0.1µF	C CAP.	NCB21EK-104X	C0707
	ĸ	50V	0.01µF	C CAP.	NCB21HK-103X	C0708
	ž	25V	0.1µF	C CAP.	MCF21EZ-104X	C0709
	H	167	10μF	E CAP.	NEH71CM-106X	C0710
	Z	25V	0.1µF	C CAP.	NCF21EZ-104X	C0711
	H	16V	10μF	E CAP.	NEH71CM-106X	C0712
	K	SOV	0.047μF	C CAP.	NCB21HK-473X	C0713
_						COIL
	7µH	4 7		COIL	NQLO2BJ-4R7X	L0001-05
	ЗиН			COIL	NQL011K-3R3X	L0101
	ЗиН			COIL	WQL011K-3R3X	L0121
	ЗиН			COIL	NQL011K-3R3X	L0141
	ОиН			COIL	NQL02BJ-100X	L0161
	ЗμН			COIL	NOLOZBJ-3R3X	L0162
	ОиН	10		COIL	NQL02BJ-100X	L0163-64
	ОμН			COIL	MQL02BJ-100X	L0201-02
	7µН	4.7		COIL	NQL02BJ-4R7X	L0301-02
-					DE	DIO
				SI.DIODE	MA152WK-X	D0001
				ZENER DIODE	MA3068/M/-X	00101-02
				ZENER DIODE	NA3043-X	00103
				SI.DIODE	MA111-X	D0104-05
				ZENER DIODE	NA3068/M/-X	00106
				SI.DIODE	MA111-X	00107
				SI.DIODE	MA111-X	00401
				ZEMER DIODE	MA3068/M/-X	00403-10
				SI.DIODE	MA111-X	00411-13
				ZENER DIODE	MA3068/M/-X	D0411-13
				SI.DIODE	MA111-X	00701
_				R	ISISTO	TRAI
				SI.TRANSISTOR	2SA1162/YG/-X	Q0101
				SI.TRANSISTOR	25C2712/YG/-X	Q0102
				SI.TRANSISTOR	2SA1162/YG/-X	00103
				SI.TRANSISTOR	2SC2712/YG/-X	00104
				SI.TRANSISTOR	25A1162/YG/-X	00105
				SI.TRANSISTOR	2SC2712/YG/-X	Q0106-07
				SI.TRANSISTOR	2SA1162/YG/-X	Q0108
				SI.TRANSISTOR	2SC2712/YG/-X	Q0109-10
				SI.TRANSISTOR	25A1162/YG/-X	Q0111
				SI.TRANSISTOR	2SA1162/YG/-X	Q0121
				SI.TRANSISTOR	2SC2712/YG/-X	00122
				SI.TRANSISTOR	25A1162/YG/-X	Q0123
				SI.TRANSISTOR	25C2712/YG/-X	00124
				SI.TRANSISTOR	25A1162/YG/-X	Q0141
				SI.TRANSISTOR	25C2712/YG/-X	Q0142
				SI.TRANSISTOR	2SA1162/YG/-X	Q0143
				SI.TRANSISTOR	2SC2712/YG/-X	Q0144
				SI.TRANSISTOR	2SC2712/YG/-X	Q0151-52
				SI.TRANSISTOR	2SA1162/YG/-X	Q0153
				SI.TRANSISTOR	25C2712/YG/-X	Q0154
				SI.TRANSISTOR	25A1162/YG/-X	Q0155
				SI.TRANSISTOR	25C2712/YG/-X	Q0402
				SI.TRANSISTOR	2SA1162/YG/-X	00403-05
				SI.TRANSISTOR	25A1162/YG/-X	Q0411
				SI.TRANSISTOR	2SC2712/YG/-X	Q0412-15
				SI.TRANSISTOR	2SA1162/YG/-X	Q0431
				SI.TRANSISTOR	2SC2712/YG/-X	Q0432-35
				SI.TRANSISTOR	25A1162/YG/-X	Q0451
				SI.TRANSISTOR	2SC2712/YG/-X	00452-55
				31. (IO/N)3131UK	23C2/12/16/-X	UU432-33

Symbol No.	Part No.	Part Name	Description	Lo
TRAN	VSISTO	R		
00471	2SA1162/YG/-X	SI.TRANSISTOR		
00472-74	2SC2712/YG/-X	SI.TRANSISTOR		
00501	25C2712/YG/-X	SI.TRANSISTOR		
00601	25C2712/YG/-X	SI.TRANSISTOR		
Q0702	25C2712/YG/-X	SI.TRANSISTOR		
IC				
IC0101	SDA9206	1 C		
IC0102	TC4W66F-X	I.C. (DIGI-MOS)		
IC0201	SDA9400	I C		
IC0301	JCC5043	I C		
IC0401	DDP3310B/D3-W	IC		
IC0601	SN74LVO4ANS-X	I C		
IC0602	TC74AC00F-X	I.C.(DIGI-MOS)		
IC0603	MN1382/Q/-X	I.C.(MONO-ANA)		
IC0701-02	NJH4556AH-XE	IC		
ОТНЕ	RS			_
LC0001-04	CE42482-103Y	EMI FILTER		
LC0101-03	CE42482-470Y	EMI FILTER		
LC0104	CE42126-101Y	EMI FILTER		
LC0201	CE42482-103Y	EMI FILTER		
LC0401-11	CE42126-220Y	EMI FILTER		
LC0601 LC0602	CE42126-101Y CE42482-470Y	EMI FILTER EMI FILTER		
LC0603	CE42126-101Y	ENI FILTER		
X0101	QAX0549-001Z	X TAL		
X0201	QAX0359-001Z	CRYSTAL		
X0401	QAX0548-001Z	X TAL		
Y0001-14	NRSA02J-OROX	MG R	0.0Ω 1/10W J	
Y0017-28	NRSA02J-OROX	MG R	0.0Ω 1/10₩ J	

AV-32WZ4EP / AV-28WZ4EP / AV-28WZ4EPS

PACKING



PACKING PARTS LIST

	~~~	YE.		
ΑV	4		. S 4800	W.
	endisi			

Loca	Description L	Part Name	Part No.	Ref. No.	Δ
*		PACKING CASE	AEM1002-C43-E	1	
		REMOCON UNIT	RM-C793-1E	,	
		CUSHION SHEET	AEM3022-003-E	2	
- 7		CUSHION SHEET	AEM3022-004-E	Ä	
- 7	4pcs in 1set	PACKING CUSHION	CP11549-B0B-E	5	
- 7		SET COVER	AEM1004-A07-E		
	THE PART OF THE PA	POLY BAG	AEM3021-001-E	7	
1	For ENG/GER/FRA/NED/ITA/ESP	INST BOOK	LCT0341-001A-U	8	Λ
1	For FIN/NOR/DEN/SWE/POR	INST BOOK	LCT0342-001A-U	9	<u></u>
	ONLY ITALY (SERVICE)	X-RAY CARD	AEM1043-001-E	10	_
,	UNLT TIMET (SERVICE)	S. DIAGRAM	2832WZ4EPS-HSAE	11	
,	(1295)	EURO LABEL	AEM1038-085-E	12	
,	(1295)	ADDRESS CARD	BT-20066A-E	13	
	•	WARRANTY CARD	BT-54013-1E	14	

# AV-28WZ4EP

Local	Description	Part Name	Part No.	Ref. No.	Δ
*		PACKING CASE	AEM1002-067-E	1	
		REMOCON UNIT	RM-C793-1E	,	
		CUSHION SHEET	CP40193-009-E	3	
		CUSHION SHEET	CP40193-010-E	4	
-	4pcs in 1set	PACKING CUSHION	LC10522-002A-U	5	
*		SET COVER	AEM1004-A06-E	6	
	(SER / MER / )	POLY BAG	AEM3021-001-E	7	
TIA/ESF +	For ENG/GER/FRA/NED/1	INST BOOK	LCT0341-001A-U	8	Δ
POR *	For FIN/NOR/DEN/SWE/P	INST BOOK	LCT0342-001A-U		
*		X-RAY CARD		9	Δ
	ONLY ITALY (SERVICE)	S. DIAGRAM	AEM1042-001-E	10	
*		FURO LABEL	2832WZ4EPS-HSAE	11	
*	(1295)	ADDRESS CARD	AEM1039-040-E	12	
*	(1200)	WARRANTY CARD	BT-20066A-E	13	
		WARRANTT CARD	BT-54013-1E	14	

Loca	Description	Part Name	Part No.	No.	Ref.
		PACKING CASE	AEM1002-067-E		1
		REMOCON UNIT	RM-C793-1E		
		CUSHION SHEET	CP40193-009-E		- 2
		CUSHION SHEET	CP40193-010-E		3
	4pcs in 1set	PACKING CUSHION	LC10522-002A-U		4
		SET COVER	AEM1004-A06-E		5
		POLY BAG	AEM3021-001-E		6
D/ITA/ESP	For ENG/GER/FRA/NED/	INST BOOK			7
		THOST BOOK	LCT0341-001A-U		7 8
E/POR	For FIN/NOR/DEN/SWE/	INST BOOK			
		X-RAY CARD	LCT0342-001A-U		7 8
)	ONLY ITALY (SERVICE)	S. DIAGRAM	AEM1042-001-E		10
	ORET TIME (SECTION	EURO LABEL	2832WZ4EPS-HSAE		11
	(1295)		AEN1039-040-E		12
	(1233)	ADDRESS CARD	BT-20066A-E		13
		WARRANTY CARD	BT-54013-1E		14

AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS

# AV-32WZ4EP AV-28WZ4EP

# AV-28WZ4EPS STANDARD CIRCUIT DIAGRAM

## ■ NOTE ON USING CIRCUIT DIAGRAMS

#### 1. SAFETY

The components identified by the symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

#### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions

(1)Input signal

:PAL Colour bar signal

(2)Setting positions of

each knob/button and

variable resistor

:Original setting position

when shipped

(3)Internal resistance of tester

:DC 20k Q/V

(4)Oscilloscope sweeping time

⇒ 20µS/div

⇒ 5mS/div

:Others => Sweeping time is

specified

(5)Voltage values

:All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

#### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

oin the PW board :R1209---R209

#### 4.INDICATIONS ON THE CIRCUIT DIAGRAM (1)Resistors

## ■Resistance value

No unit :[Ω]:

:[KQ]

:[MQ]

Rated allowable power

No indication :1/10[W]

Others

:As specified

Type

No indication :Carbon resistor

OMR :Oxide metal film resistor MFR :Metal film resistor MPR :Metal plate resistor

UNFR :Uninflammable resistor FR :Fusible resistor

*Composition resistor 1/2 [W] is specified as 1/2S or Comp. (2)Capacitors

Capacitance value

1 or higher :[pF] :[µF]

less than 1 Withstand voltage

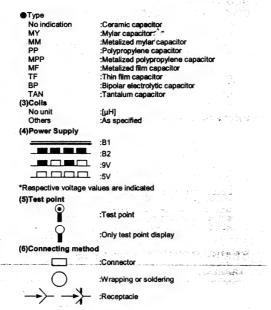
No indication :DC50fVI

AC indicated :AC withstand voltage [V]

Others :DC withstand voltage [V]

*Electrolytic Capacitors

47/50[Example]:Capacitance value [μF]/withstand voltage[V]



# (7)Ground symbol

:LIVE side ground

:ISOLATED(NEUTRAL) side ground

:EARTH ground

:DIGITAL ground

### **5.NOTE FOR REPAIRING SERVICE**

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE: (1) side GND and the ISOLATED(NEUTRAL): ( L) side GND. Therefore, care must be taken for the following points.

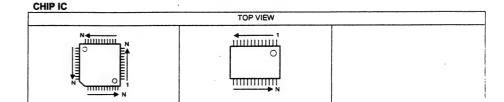
(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

♦ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS

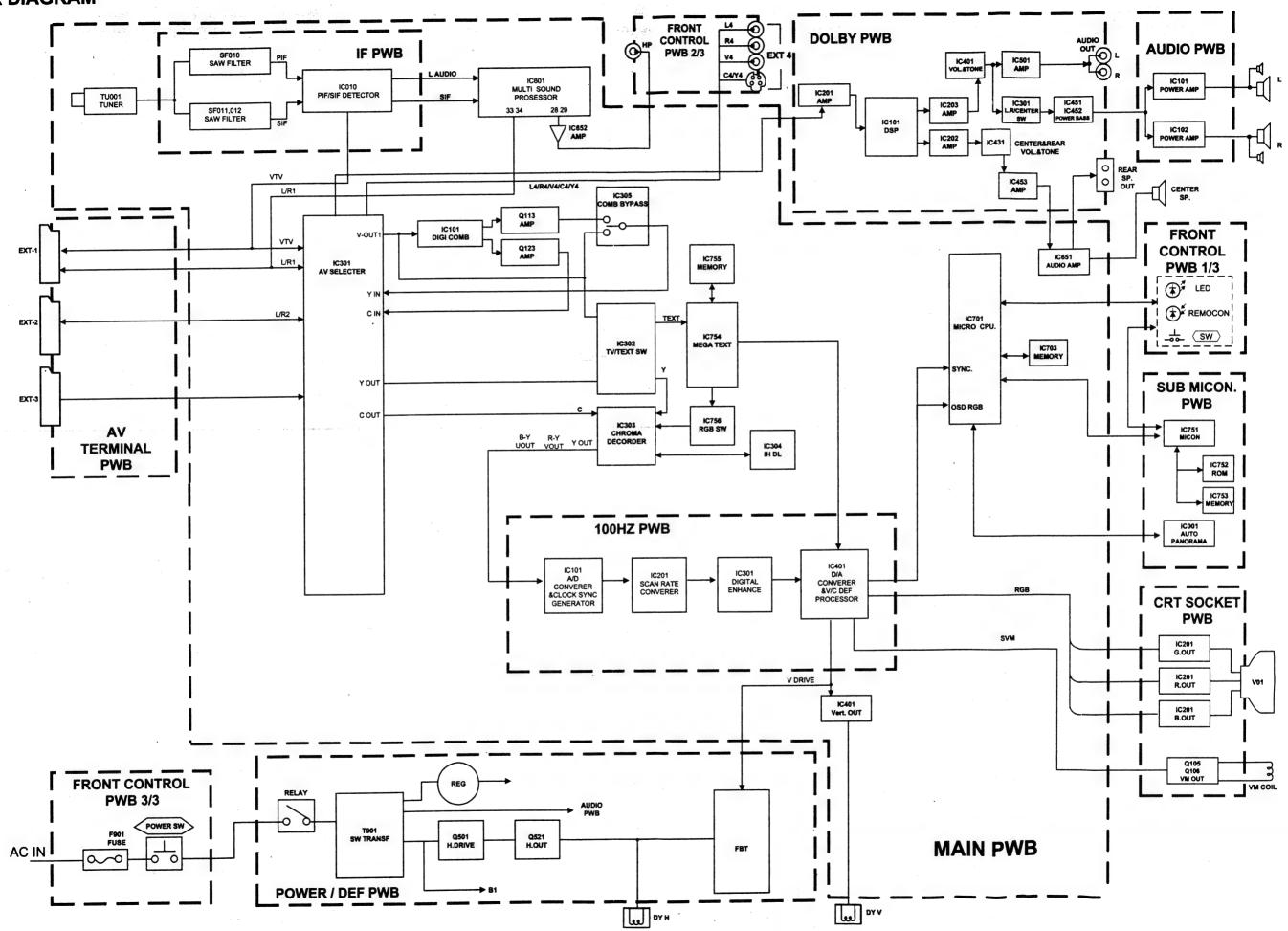
CONTEN	TS				
POWERDEF PWS CII SUB MICON & AUTO 100Hz PWB CIRCUIT IF PWB CIRCUIT DIAC AUDIO PWB CIRCUIT DOLBY PWB CIRCUIT FRONT CONTROL PW CRT SOCKET PWB C	MS DIAGRAM CCUIT DIAGRAM	CCUIT DIAGRAM			2-3  2-5  2-11  2-13  2-15  2-17  2-19  2-21  2-23  2-25
POWER/DEF PWB PA AV TERMINAL PWB P IF PWB PATTERN CRT SOCKET PWB P, FRONT CONTROL PW DOLBY PWB PATTER DOLBY PWB PATTER 100Hz PWB PATTERN 100Hz PWB PATTERN SIB MICON A AUTO	TTERN. ATTERN. ATTERN. B PATTERN N [PARTS SIDE] N [SOLDER SIDE] [[PARTS SIDE] I[SOLDER SIDE] PANORAMA PWB PA	TTERN			2-31 2-33 2-34 2-35 2-35 2-37 2-38 2-39 2-40 2-41
BOTTOM VIEW		FRONT VIEW	٧		TOP VIEW
E C B	E C &	O W U W C (GKONS)		E C S	CHIP TR
IC SOTTOMATEM		FRONT VIE			TOP VIEW
BOTTOM VIEW  OUT E IN	O UT	FRONT VIE		<u> </u>	TOP VIEW



AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS

AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS

# **BLOCK DIAGRAM**



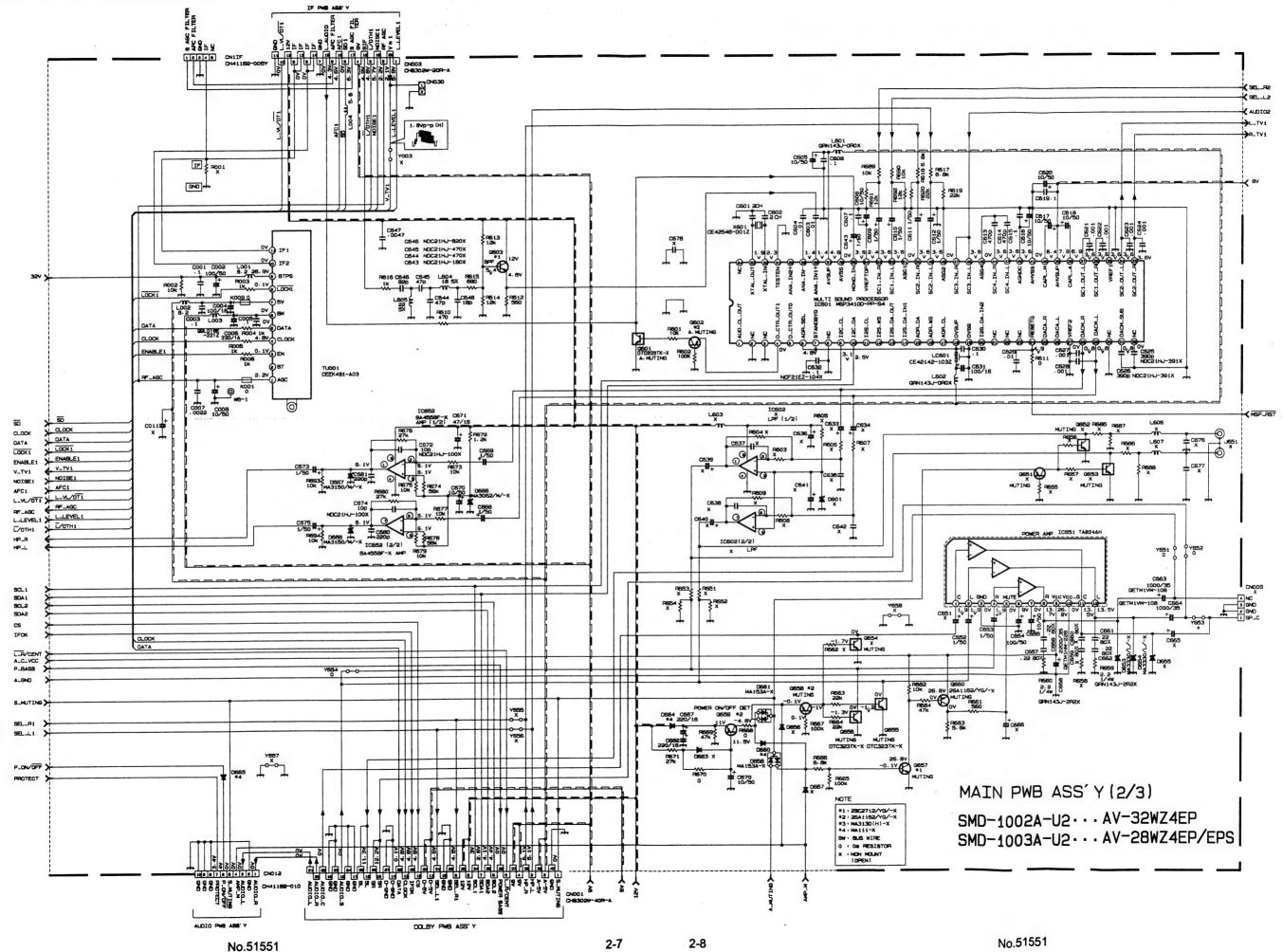
AV-28WZ4EP AV-28WZ4EP AV-28WZ4EPS AV-28WZ4EPS **CIRCUIT DIAGRAMS** MAIN PWB CIRCUIT DIAGRAM (1/3) FF STANDING COURT MAIN PWB ASS'Y (1/3) | Caso Caso | Caso SMD-1002A-U2...AV-32WZ4EP SMD-1003A-U2··· AV-28WZ4EP/EPS 5.62 R290 R291 + C224 2. 2k 33k 1/50 SUSTITUE SW D. CLOOX
D. RESET
N/S_COR
ROTATION
ROTATION 1. 5Vp-p (H R313 220 R314 470 ± C309 ± 3900H c-onus € R257 89k BLLLI BLLRI HLENABLI V-TVI RLTVI RLTVI BELLE BELLRI No.51551 2-5 2-6 No.51551

AV-32WZ4EP

AV-32WZ4EP

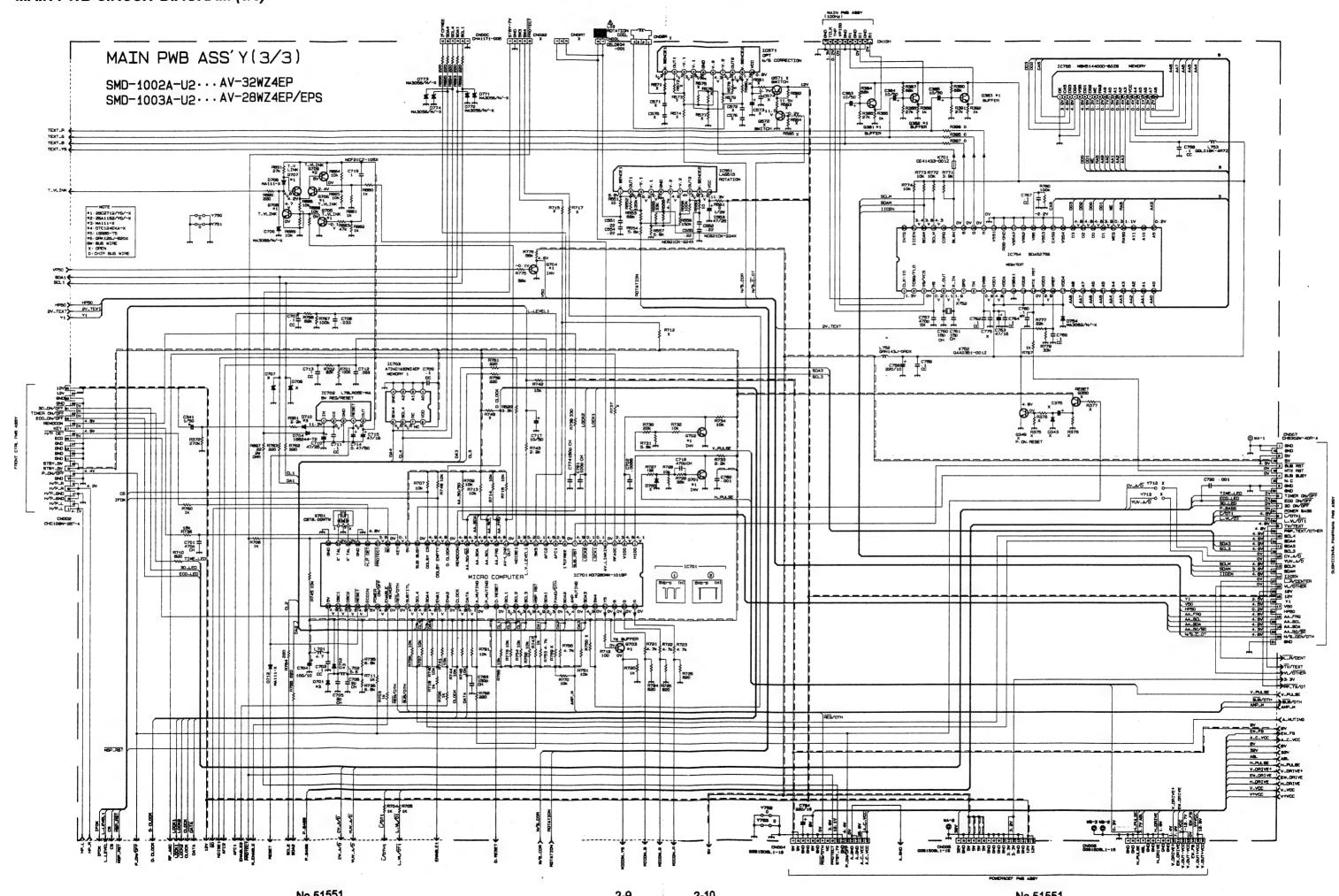
AV-32WZ4EP AV-32WZ4EP AV-28WZ4EP AV-28WZ4EP AV-28WZ4EPS AV-28WZ4EPS

# MAIN PWB CIRCUIT DIAGRAM (2/3)



AV-32WZ4EP AV-32WZ4EP AV-28WZ4EP AV-28WZ4EP AV-28WZ4EPS AV-28WZ4EPS

# MAIN PWB CIRCUIT DIAGRAM (3/3)



AV-28WZ4EP AV-28WZ4EP AV-28WZ4EPS AV-28WZ4EPS POWER / DEF PWB CIRCUIT DIAGRAM CN004 QGB1506M1-15 CN005 QGB1506M1-16 CN006 QGB1506M1-16 R987 58 1/2W 7556 BW T · · · P961 0962 1-9k 3 ↑ C902 C903 C904 G047 250VAC | CSC: (3) | OSC: (3) CS31 + CS37 + CS C910 QCZ0122-561 HEATER POWER/DEF PWB ASS'Y *1:2SC1815/YG/-T *2:2SA1015/YG/-T *3:1SS133-T2 BW:BUS WIFE X:NON MOUNT (OPTION) SMD-2002A-U2...AV-32WZ4EP SMD-2003A-U2...AV-28WZ4EP/EPS C561 680p X R554 1-9k 2-7k R561 10k X Y564 BW X Y568 BW X Y569 BW X 0015 0015 0015 0015 0015 A FOR THE STREET CRT SOCKET PWB ASSY

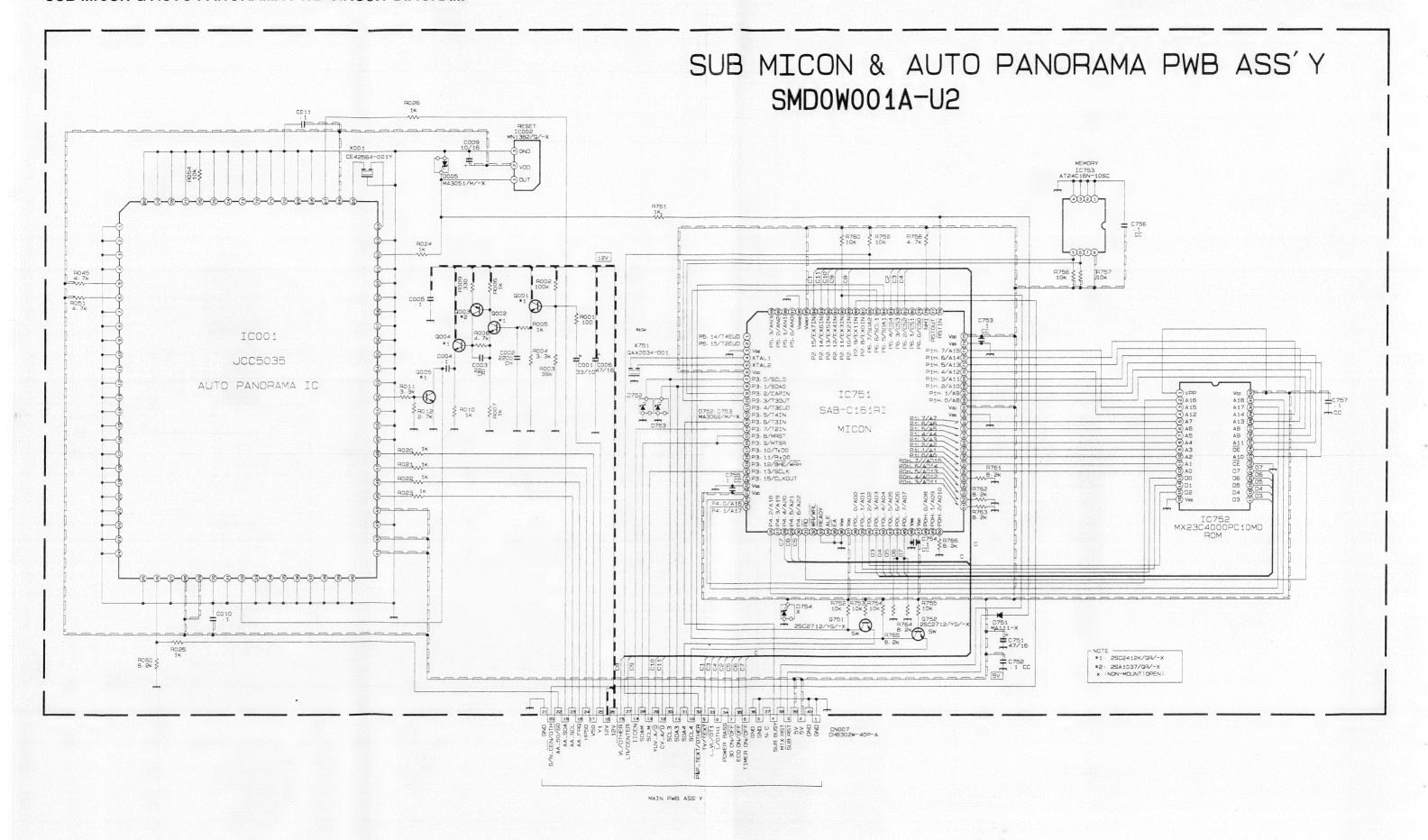
AV-32WZ4EP

AV-32WZ4EP

No.51551

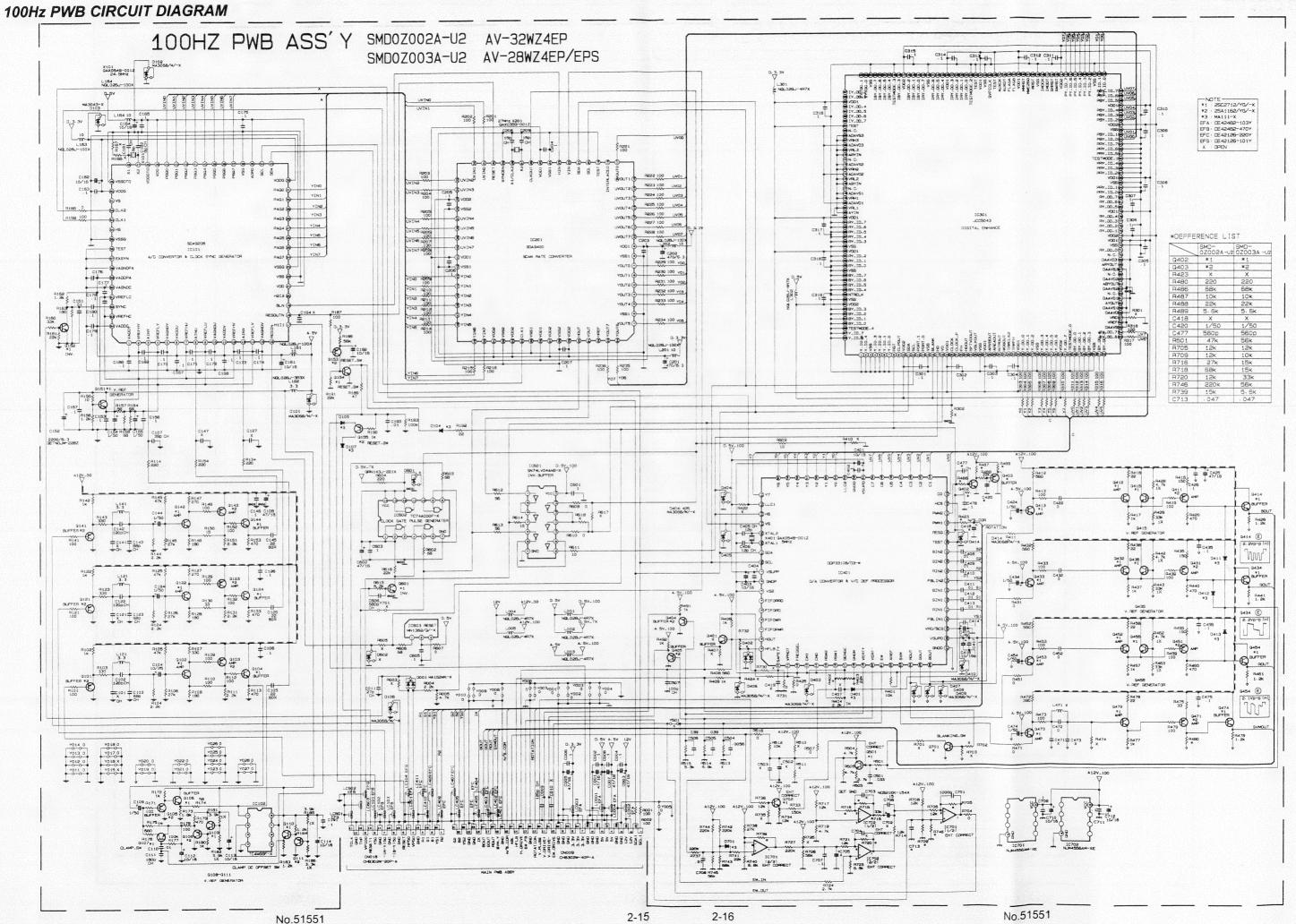
No.51551

# SUB MICON & AUTO PANORAMA PWB CIRCUIT DIAGRAM

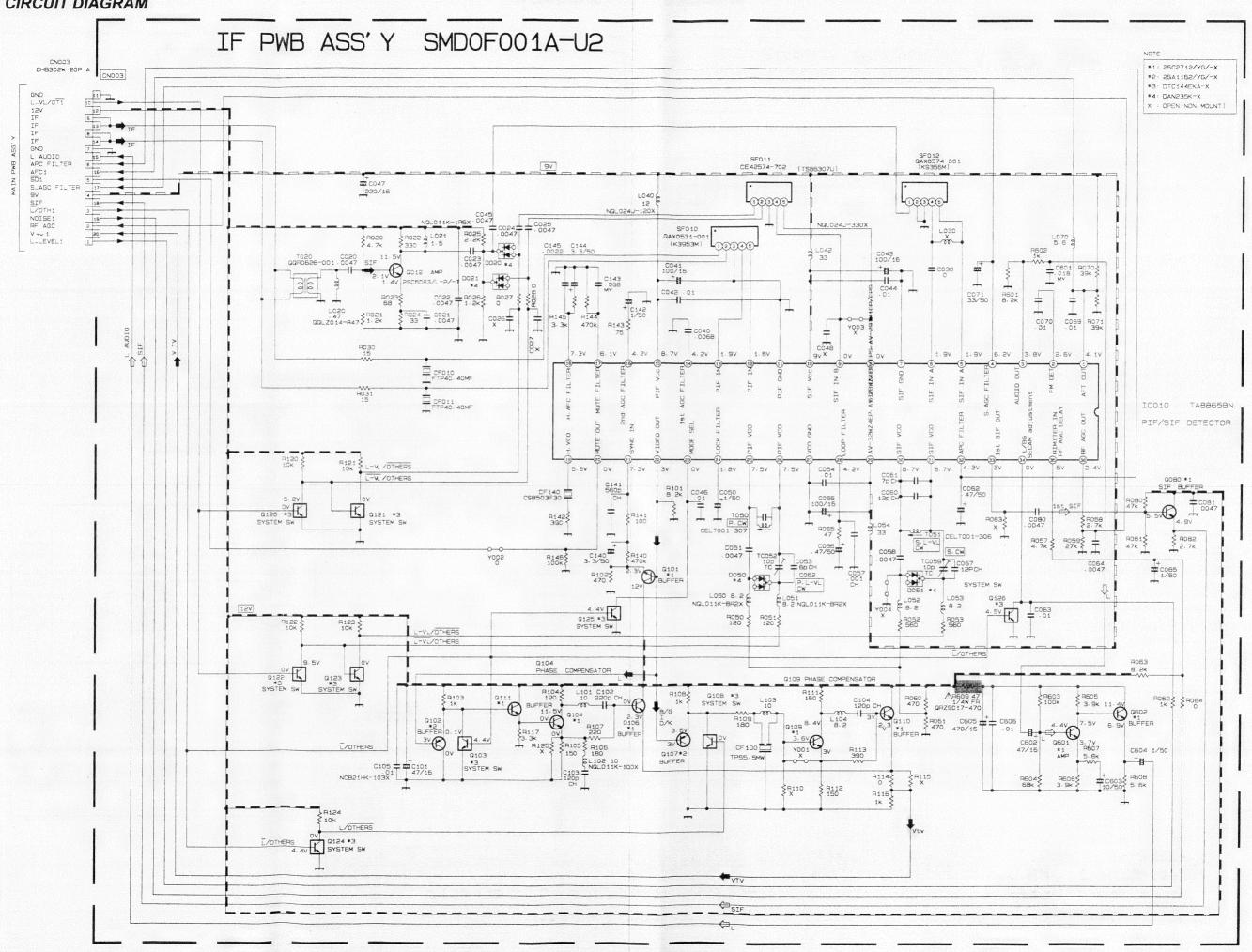


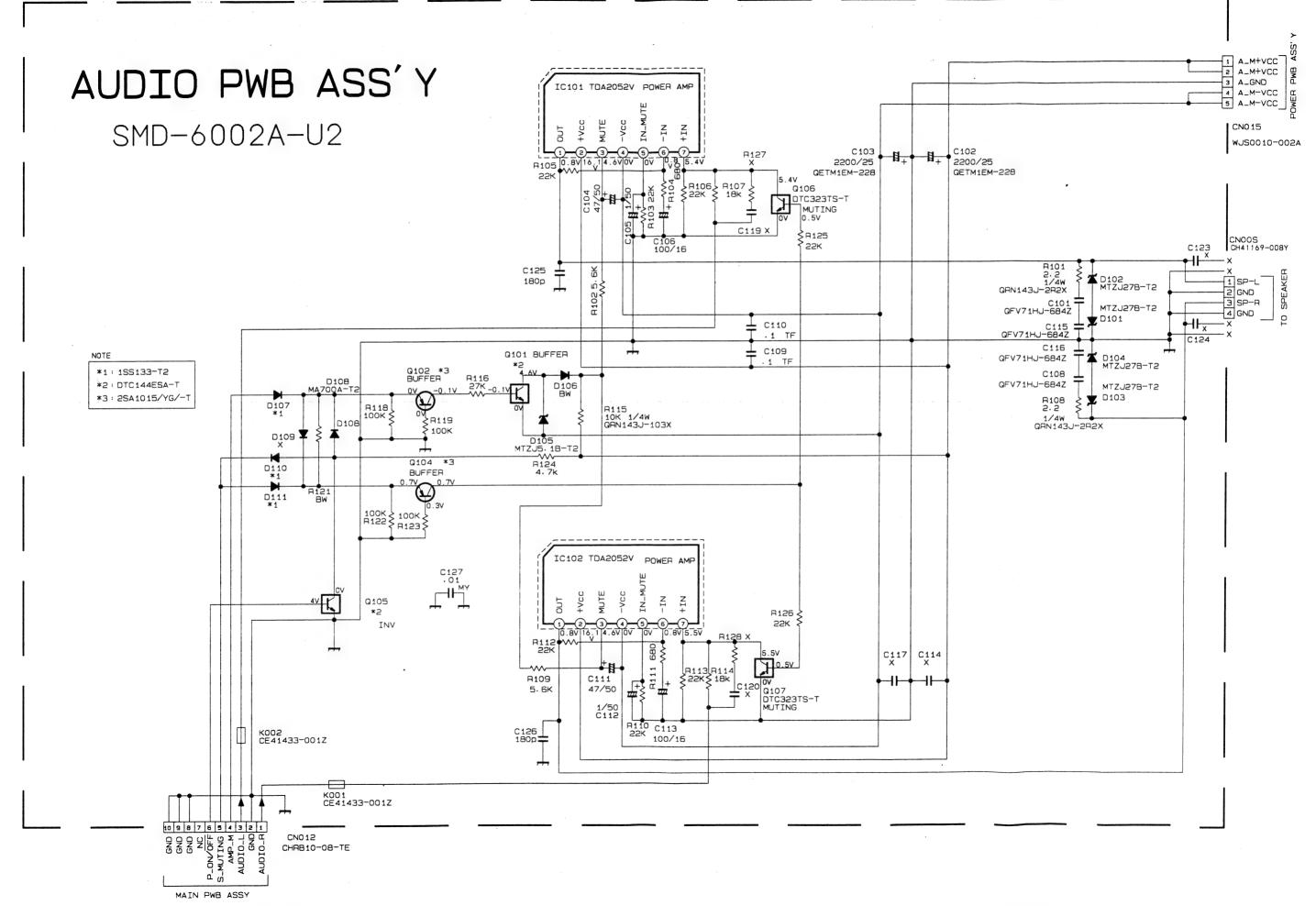
AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS

AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS



# IF PWB CIRCUIT DIAGRAM

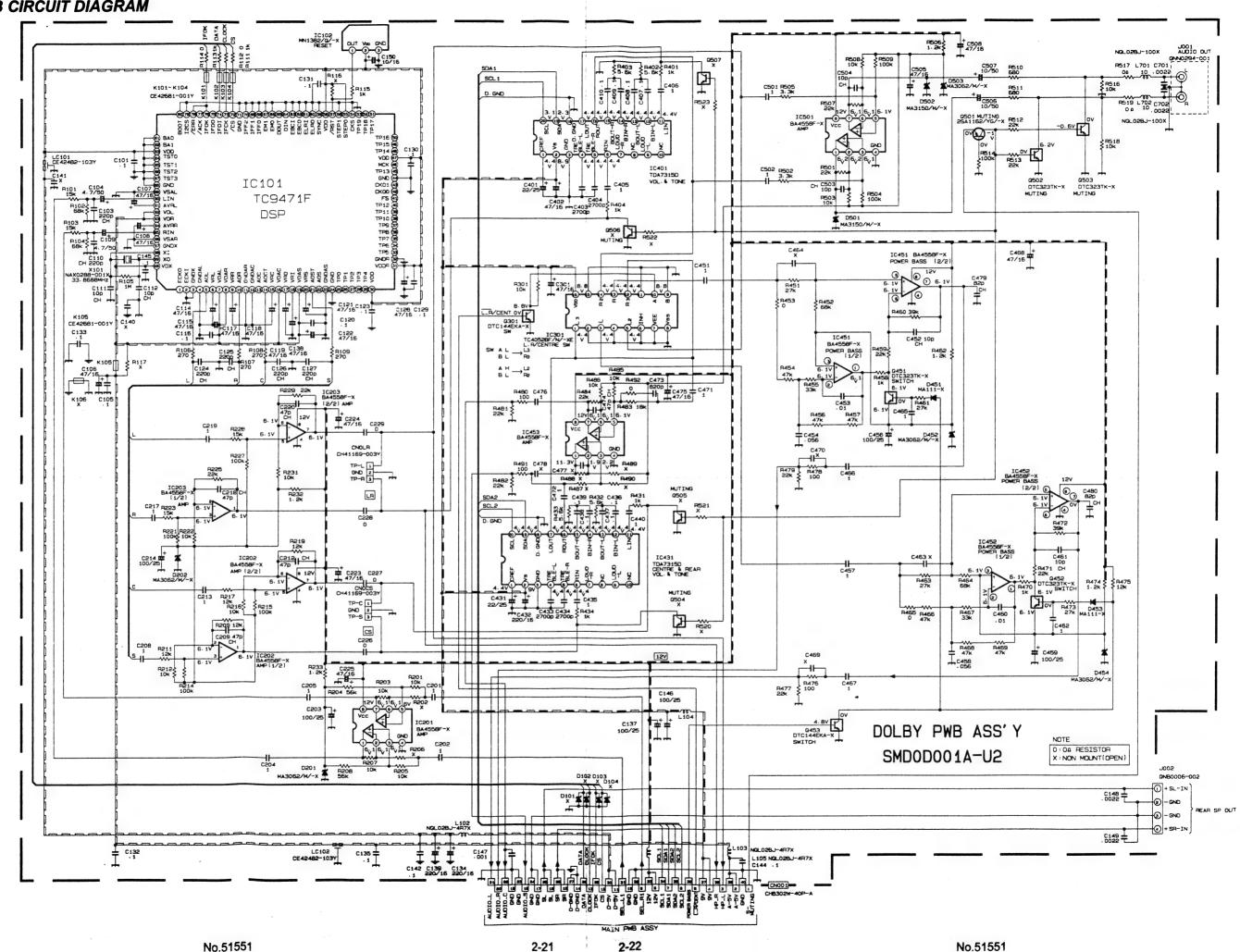




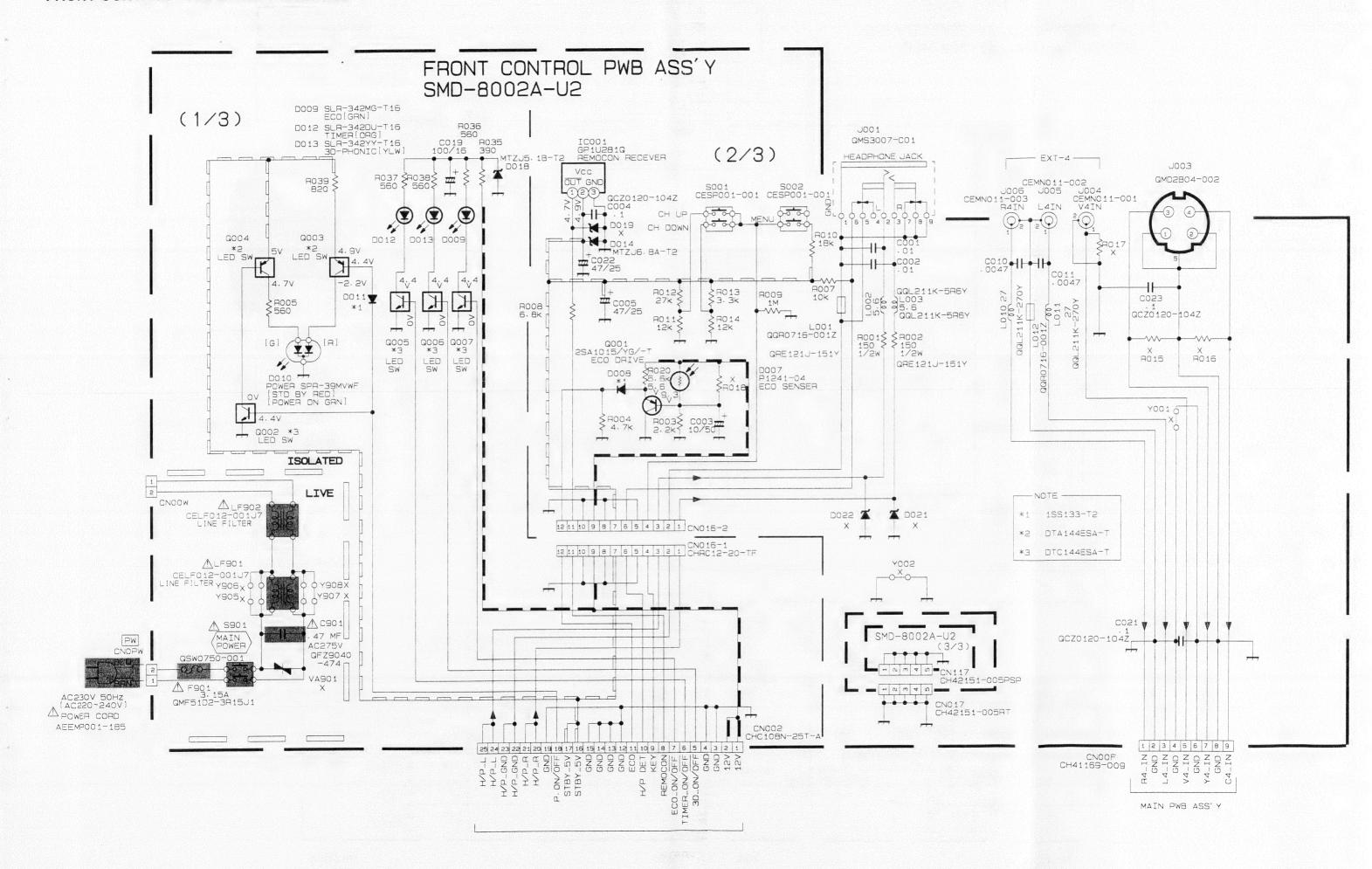
No.51551

AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS

# DOLBY PWB CIRCUIT DIAGRAM

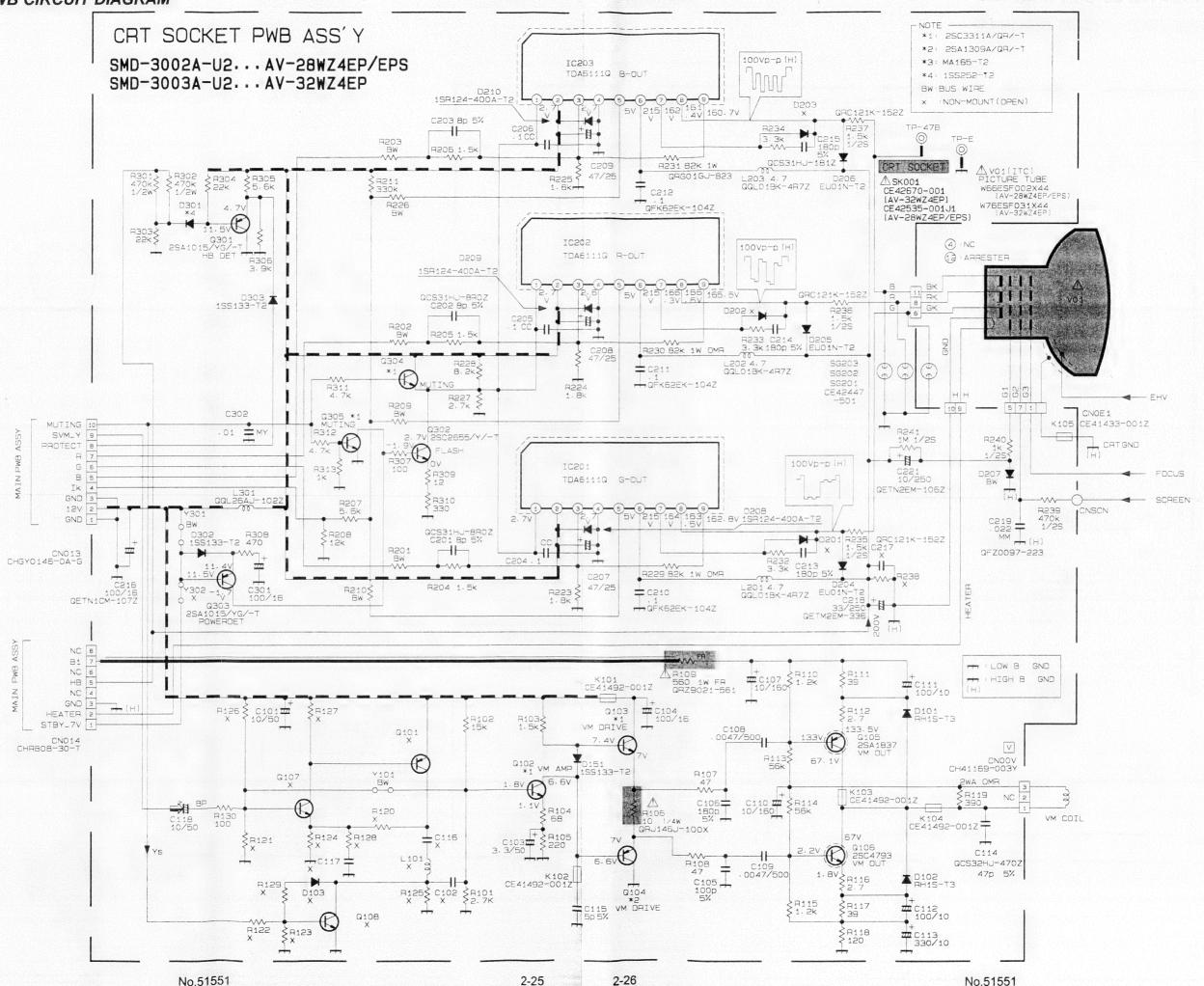


# FRONT CONTROL PWB CIRCUIT DIAGRAM

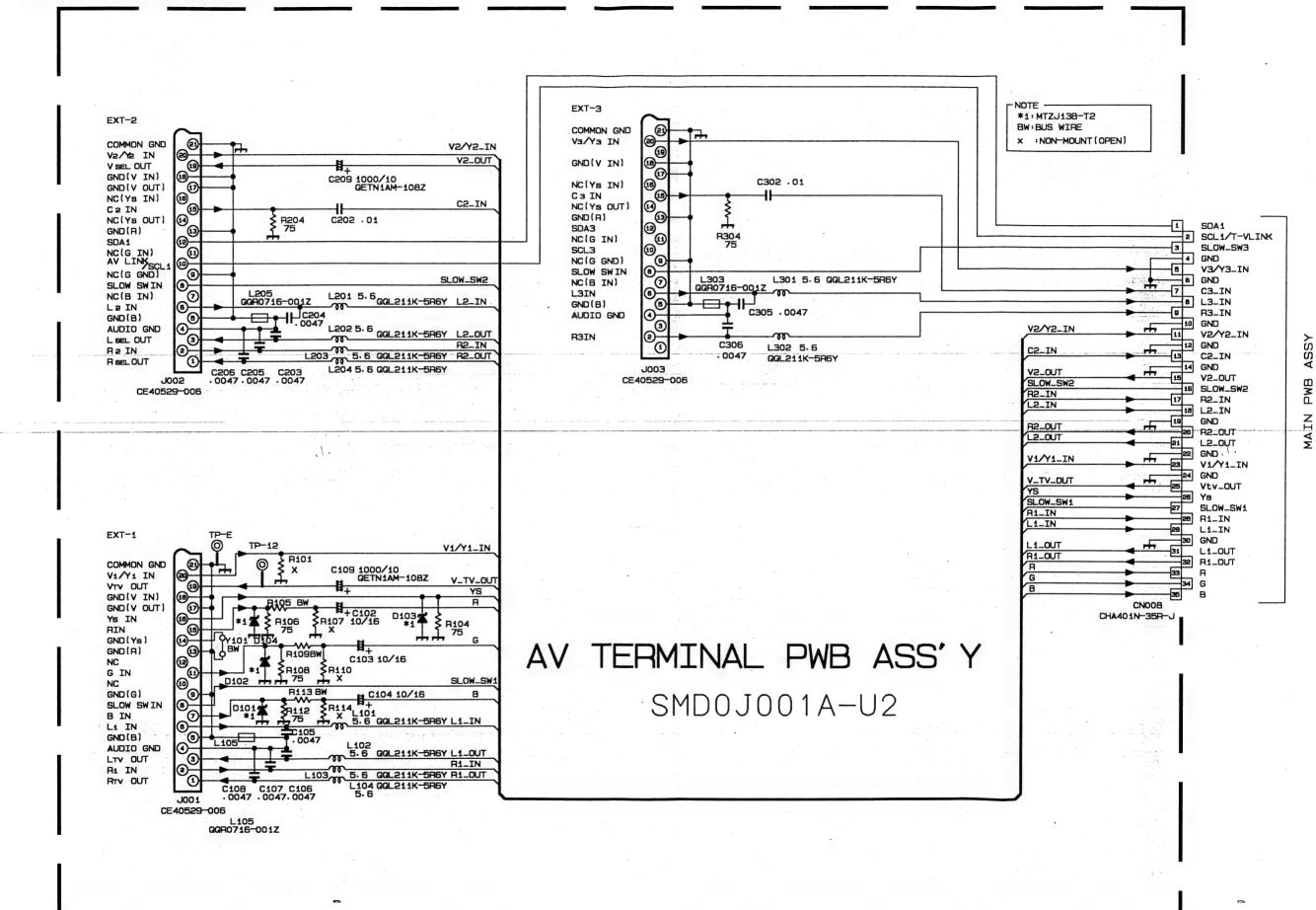


AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS AV-28WZ4EPS AV-28WZ4EPS

# CRT SOCKET PWB CIRCUIT DIAGRAM

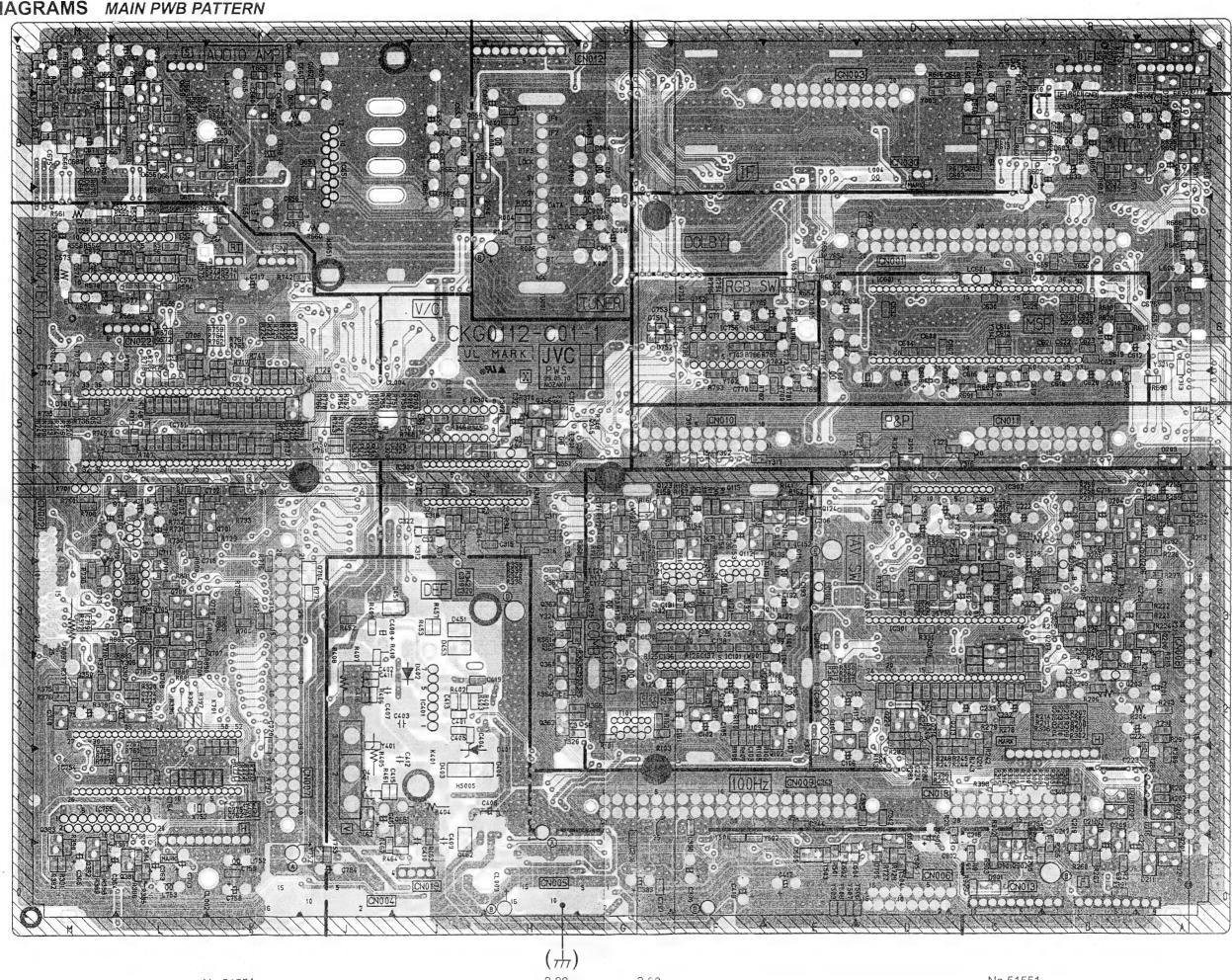


# AV TERMINAL PWB CIRCUIT DIAGRAM



2-28

# PATTERN DIAGRAMS MAIN PWB PATTERN





AV-32WZ4EP AV-32WZ4EP AV-28WZ4EP AV-28WZ4EP AV-28WZ4EPS AV-28WZ4EPS Z DOO 00 E/W PIN R955 11 C537 20 19 18 17 CKF1053-CT1 [UL MARK! ALF® TP-E (///)

No.51551

CN015 Va70

POWER / DEF PWB PATTERN

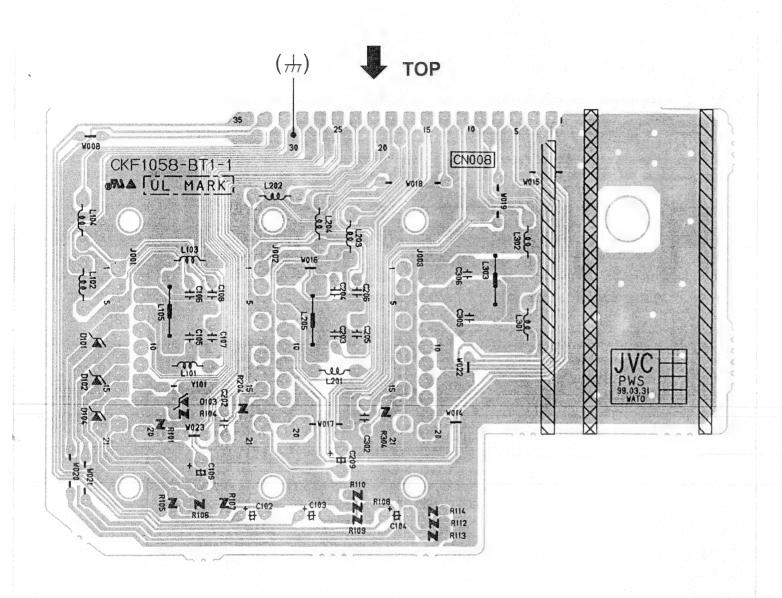
FRONT

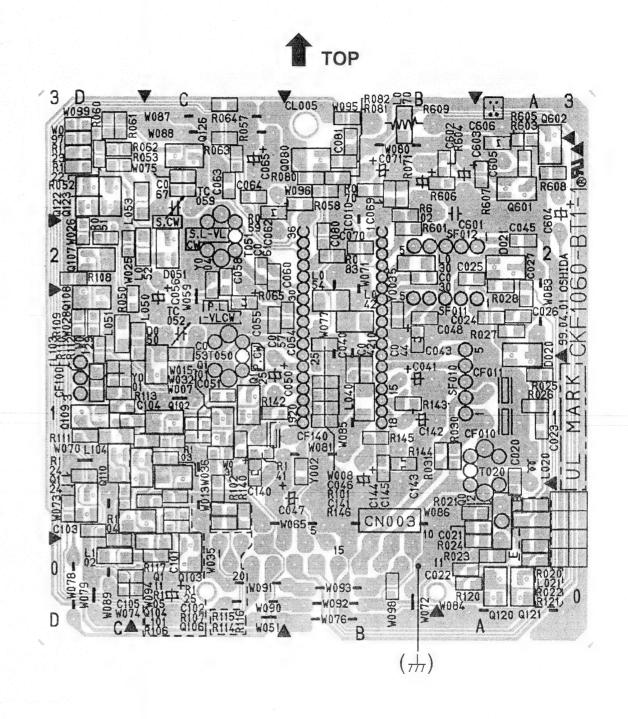
2-31

2-32

No.51551

TP-91(B1)



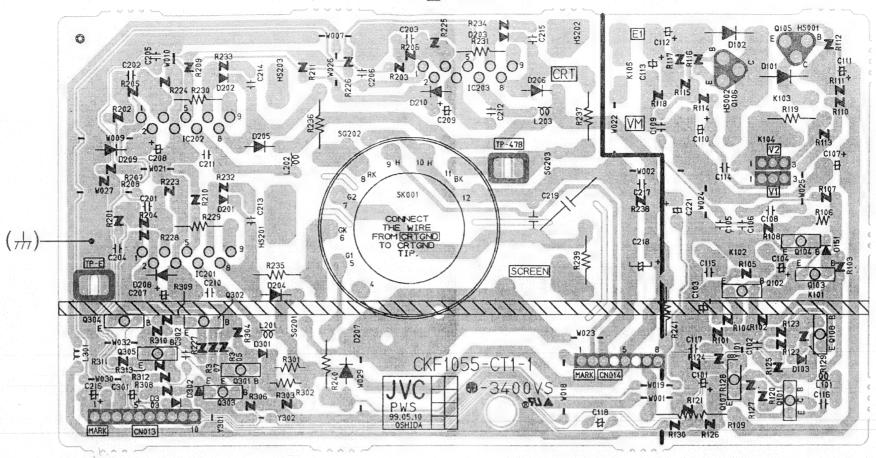


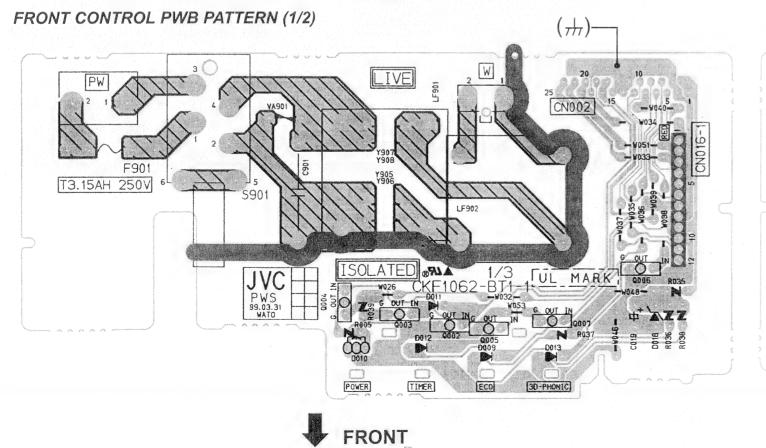
CRT SOCKET PWB PATTERN

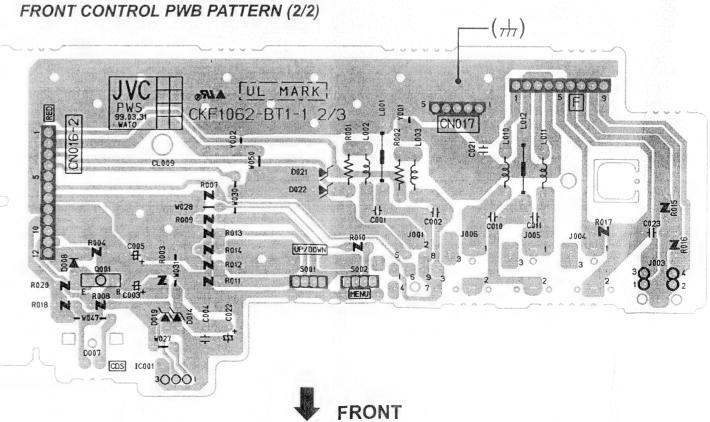
AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS

AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS

TOP



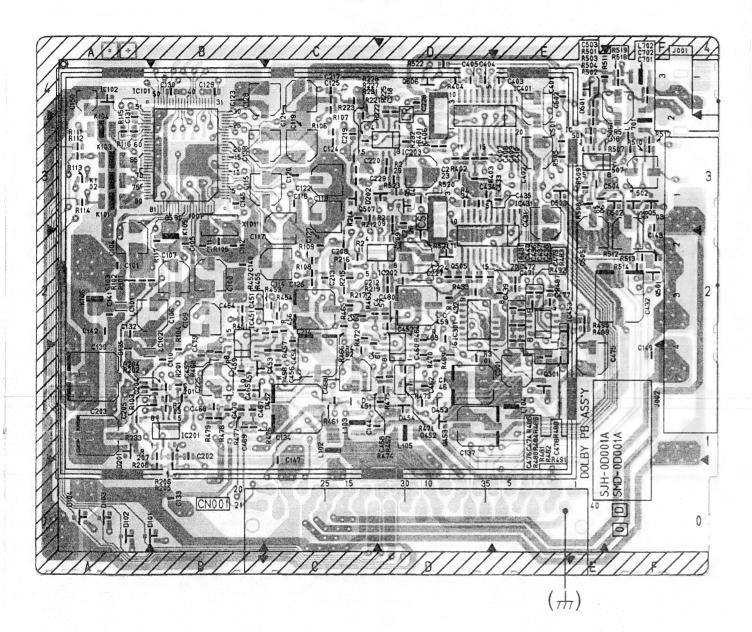




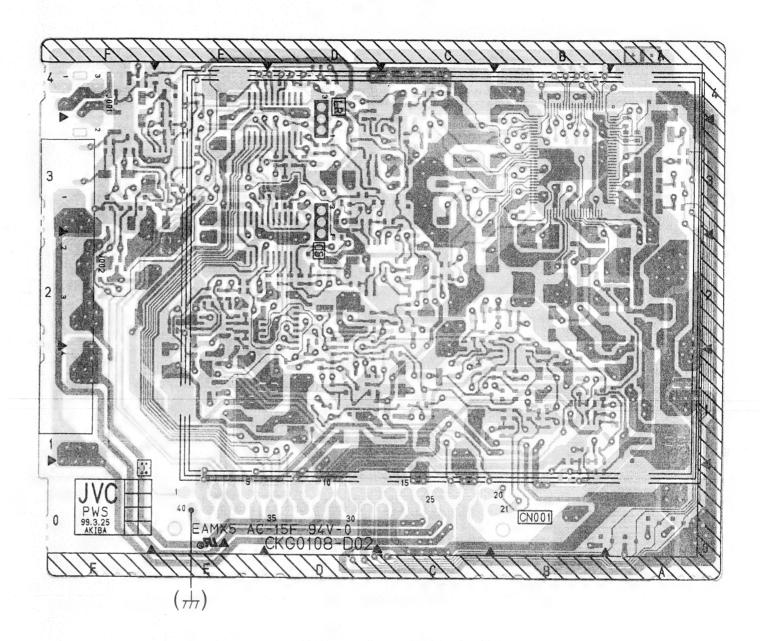
2-35

No.51551







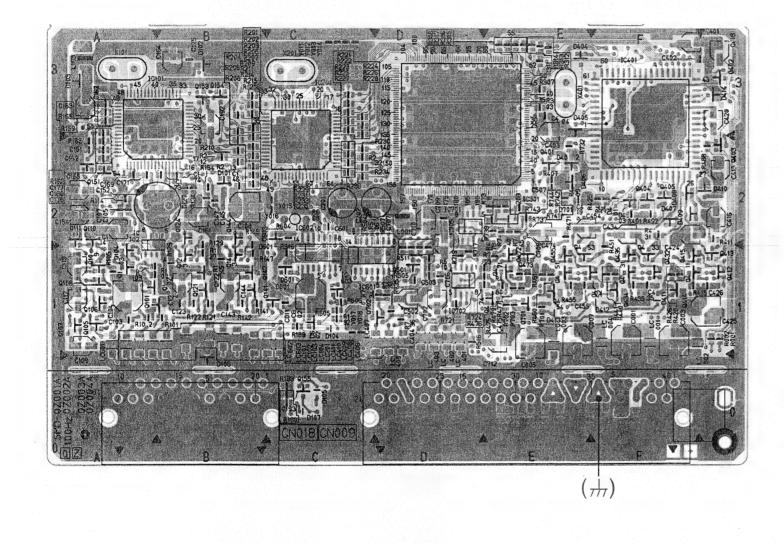


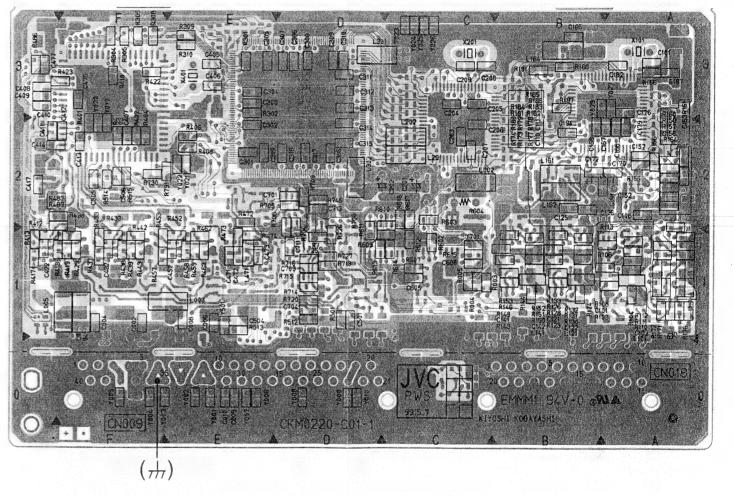
100Hz PWB PATTERN (SOLDER SIDE)







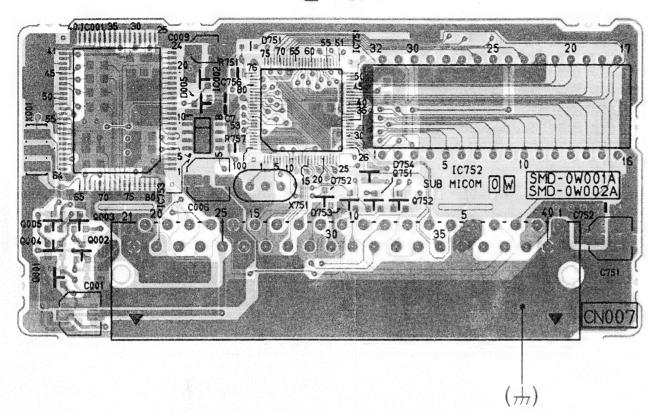




AUDIO PWB PATTERN

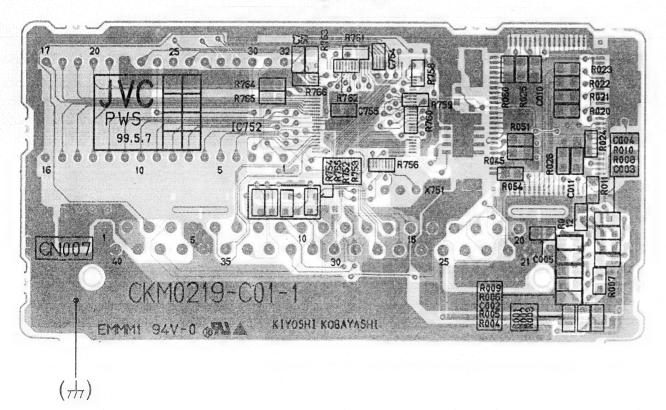
# SUB MICON & AUTO PANORAMA PWB PATTERN (PARTS SIDE)

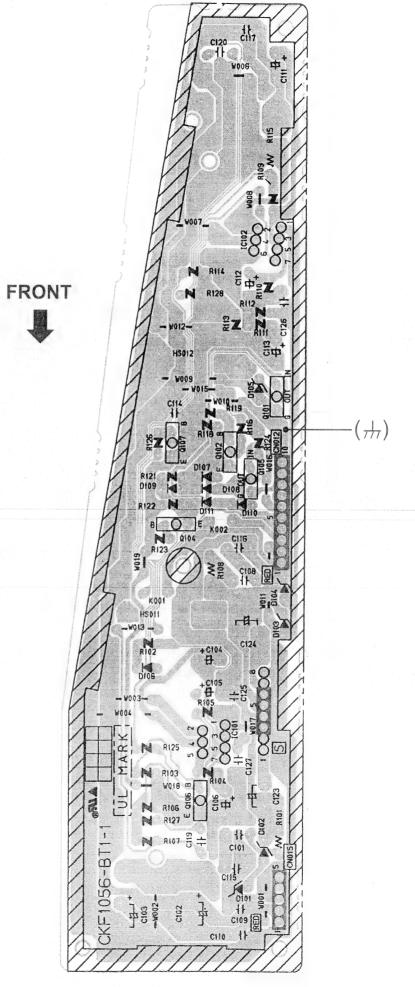




SUB MICON & AUTO PANORAMA PWB PATTERN (SOLDER SIDE)







2-41

# JVC

**COLOUR TELEVISION** 

**OPERATING INSTRUCTIONS** 

AV-28WZ4EP AV-28WZ4EPS AV-32WZ4EP



# Instructions

Thank you for buying this JVC colour television. To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

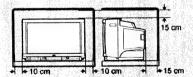
## **WARNING:**

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EX-POSE THIS APPLIANCE TO RAIN OR MOISTURE.

# **CAUTION:**

TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

- 1. Operate only from the power source specified (AC 220 - 240 V, 50 Hz) on the unit.
- Avoid damaging the AC plug and power cord.
- 3. Avoid improper installation and never position the unit where good ventilation is unattainable. When installing this television, distance recommendations must be maintained between the floor and wall, as well as instalment in a tightly enclosed area or piece of furniture. Adhere to the minimum distance guidelines shown for safe operation.



Do not allow objects or liquid into the cabinet openings. In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

When you don't use this TV set for a long period of time, be sure to disconnect the power plug from the AC socket.

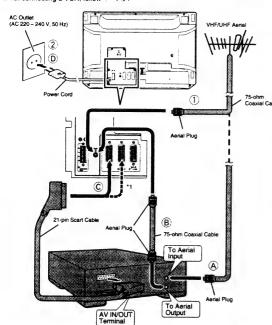
# atural Vision

ı		10,000
	Preparation	. 2
	T-V LINK Functions	. 5
I	Basic Operation	. 6
	Remote Control Buttons and Functions	. 8
ı	Menu Operation	14
	Picture Setting	15
	Picture Features	16
	Sound Setting	18
	Digital Surround	19
-	Headphone Surround	21
	EXT Setting	
	Features	
-	Install	
-	Index	
	Demo	
	Additional Preparation	
1	Connecting Speakers	
ĺ		
1	Channel Table	
-	TV Buttons and Parts	35
-	Troubleshooting	36
-	Specifications	38

# Preparation

## 1 Connecting the Aerial and VCR

If connecting a VCR, follow  $\mathbb{A} \to \mathbb{B} \to \mathbb{C} \to \mathbb{D}$ If not connecting a VCR, follow  $1 \rightarrow 2$ .



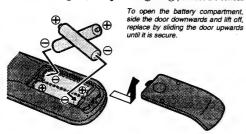
- For further details, refer to the manuals provided with the devices to be connected.
- · The connecting cables are not provided.
- A video can be viewed from the VCR without performing ©. For details, refer to the VCR manual.
- The shaded Items are not. provided.
- To connect additional external. devices, please refer to page 30.
- · To connect external speakers or audio system, please refer to page 31.
- *1 This TV is T-V LINK compatible. To operate T-V LINK, a T-V LINK compatible VCR must be connected to the EXT-2 Terminal on

- · For details about T-V LINK, refer to page 5.
- When a decoder is connected to a T-V LINK compatible VCR, set the Decoder (EXT-2) in the Fea-tures menu to ON. (See 'Decoder (EXT-2)" on page 24.)
  Otherwise, you will not be able to view scrambled channels.

# 2 Putting Batteries into the Remote Control

Use two AAA/R03 dry cell batteries.

Insert the batteries from the  $\ominus$  end, making sure the  $\oplus$  and  $\ominus$  polarities are correct.



- Follow the warnings printed on
- Battery life is about six months to one year, depending on frequency of use.
- If the remote control doesn't work properly, replace the bat-
- The batteries we supply are only for setting up and testing your TV, please replace them as soon as necessary.
- Always use good quality batter-

## 3 Initial Setting

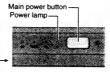
You can automatically set up to 99 TV stations to PR channels PR 1 to PR 99 on this TV.



#### Press the Main power button.

The Power lamp lights red (power on), then green (TV on).





■ When the TV is first turned on, it enters the initial setting mode, and the JVC logo is displayed.



· If the power lamp stays red and does not change to green: Your TV is in the standby mode. Press (I) (Standby) on the remote control to turn your TV

Preparation

· The TV only enters the initial setting mode the first time it is switched on, if you want to change the language and programme settings after this, please refer to page 25.

Blue button









Press V/▲ to choose ENGLISH.







Press .



The language is set for the on-screen display description, and the Country menu appears.





Press ◄/▶/▼/▲ to choose your country.









The Auto Programming starts.

The EDIT menu is displayed after the PR channels have

- . If this TV identifies a broadcast station name, that station ID is also automatically registered in a PR channel.
- . To cancel the Auto programming, press .
- To edit PR channels or allocate a station to the PRO (AV) channel, refer to page 26 "Edit/Manual".

(Continued to the next page)



Preparation



# 86(1

. If a station you want to view is not set to a PR channel, manually set it using Edit menu. (See page 26.)

#### When the ACI menu is displayed:

If your Cable TV station supports ACI (Automatic Channel Installation), the ACI menu is displayed. Please operate it according to the "ACI Operation" procedures at the bottom of this page. The channel is set quickly to the PR channel according to the order decided for all the channels.



## Press 🖲 to exit the Edit menu.



The T-V LINK menu is displayed.



## ■ When a T-V LINK compatible VCR is connected



Turn the VCR on.





## ■ When a T-V LINK compatible VCR is not connected



🔏 🤛 Press 🗝 .



The menu disappears. This completes the Initial Settings procedure.

The transmission of PR channel data from the TV to the VCR begins. The display disappears once the data transmission ends.

This completes the Initial Setting procedure.

#### Notes:

- . For details about T-V LINK, refer to page 5.
- . Depending on the type of VCR, the display may change once data transmission ends. In this case, refer to the VCR's Instruction manual.

#### ACI Operation

Press ▼/▲ to choose your area.



"ACI" is displayed in the AUTO PROGRAM menu and the ACI starts. The EDIT menu is displayed after the channels have been set

** If "ACI ERROR" is displayed, press 🔄 to re-start the ACI.

. If "ACI ERROR" is displayed anyway, press ▶ and cancel ACI, then start the ordinary Auto Programming.

. The ACI may not work correctly if you don't have good reception.

# **T-V LINK Functions**

■ When a T-V LINK compatible VCR is connected to the EXT-2 Terminal on the TV, the procedures for setting up the VCR and viewing videos are simplified.

■ T-V LINK uses the following features:

Γ		Function	Features	Remarks
	1	Preset Download	Downloads the PR channel tuning information from the TV to the VCR.	Starts automatically when the initial setting is complete or whenever the Auto Program or Edit/ Manual operations from the Install menu are performed.     This function can be operated via VCR operation.
	2	DIRECT REC (WYSIWYR)	What You See Is What You Record – You can record to VCR the images that you are currently viewing on TV by one-touch operation. For details, read the manual for your VCR.	*Operate via the VCR. (Operation via the TV is not possible.) *VCR IS RECORDING* is displayed.
	3	TV Auto Power On	When the VCR starts playing, the TV automatically turns on and switches to the EXT-2 input mode.	•This function does not operate if your TV's main power is turned off. Set your TV's main power to
		VCR Image View	When the VCR menu is operated, the TV automatically turns on and switches to EXT-2 input mode.	on (standby mode).

#### ■ To use T-V LINK:

- · a T-V LINK compatible VCR is necessary.
- the VCR must be connected to the EXT-2 terminal on the TV by a fully wired SCART cable.
- T-V LINK compatible VCRs:

In addition to all JVC VCRs that have the T-V LINK logo, any VCR that has one of the following logos are available for use:

"Q-LINK" (a trademark of Panasonic Corporation)

"Data Logic" (a trademark of Metz Corporation)

"Easy Link" (a trademark of Phillips Corporation)

"Megalogic" (a trademark of Grundig Corporation, "SMARTLINK" (a trademark of Sony Corporation)

. These VCRs may support some or all of the features described above. For de-

tails, refer to the VCR Instruction Manual.

## ■ When "FEATURE NOT AVAILABLE" is displayed:

If "FEATURE NOT AVAILABLE" is displayed after download execution, the download was not performed correctly. Confirm the following before re-executing down-

- that the VCR power is turned on.
- that the VCR is T-V LINK compatible.
- . that the VCR is connected to the EXT-2 terminal.
- · that the SCART cable is fully wired.

## ■ Operating Precautions for DIRECT REC:

- . Generally, the VCR cannot record a channel that cannot be received properly by the VCR's tuner even though that channel could be viewed on the TV.
- . In the following conditions, the VCR will stop recording if the TV is turned off, if the TV channel or input is switched, or if the menu is displayed on the TV:
- When recording images from an external device connected to the EXT-1, EXT-3 or EXT-4 terminal.
- When recording a channel after it has been unscrambled on a decoder.
- When recording a channel by using the TV's output because that channel cannot be properly received on the VCR's tuner.

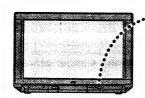
 Not all VCRs support this type of data communication. Some may support certain features and not support others. For complete details, refer to the VCH instrucENGLISH

Some VCRs can record a channel by using the TV's output if that channel can be viewed on the TV, even though the channel cannot be received properly by the VCR's tuner. For details, refer to the VCR Instruction Manual.



No.51551

# Basic Operation



m

W.

## Turn the Main power on.

The Power lamp lights red and your TV is in the stanby mode.

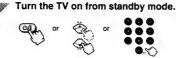
If the Power lamp lights green, the TV is already on.

To turn the Main power off:

~ ."

The Power lamp goes off.
To save energy, turn the main power off if not using the TV for a long period of time.

## Operating with the Remote Control



The Power lamp lights red to green.

To turn the TV off:



The Power lamp changes from green to red. The TV enters standby mode.



#### Choose a TV channel.



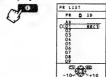
# • PR12 → press ● and ● • PR6 → press ●.

Notes:

#### Use the PR List:



Choose a TV channel.



 For channels with Child Lock set, a û (Locked) mark is displayed next to the channel number.

- Using the PR List, the EXT terminal can also be chosen. Each EXT terminal is after the PR 99 channel.
- If you don't have a clear picture or no colour appears, change the colour system manually. See "Colour System" on page 16.
- If the picture is tilted, correct the picture. See "Picture Tilt" on page 17.

Press 🐨



Adjust the volume.



The Volume indicator appears and the volume changes as -/+ are pressed.

#### Basic Operation

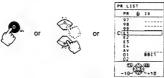


To listen to the sound using headphones, see "Headphone" on page 19.

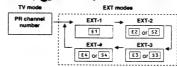


#### Watch images from external devices.

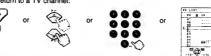
Choosing an EXT terminal or PR 0 (AV) channel.



The EXT terminals are registered after the PR 99 channel.
Pressing button changes the choice as follows:



To return to a TV channel:



 When the TV and VCR are connected only by the RF cable, the VCR RF channel* must be preset to the PR 0 (AV) channel to view VCR video. Choosing the PR 0 (AV) channel allows you to view images from VCR video.

Pressing ___ button changes the choice as follows.

TV mode	EXT modes
PR channel	EXT-1 EXT-2
number AV	E1 E2 or \$2
	EXT-4 EXT-3
	£4 or \$4

#### Notes:

- To use S-Video mode to view input from an S-VHS VCR, see "To choose S-VIDEO input" on page 22. When choosing EXT-2, EXT-3 or EXT-4 input terminats as S-VIDEO input, E2, E3 or E4 changes to S2, S3 or S4 in the display.
- If you don't have a clear picture or no colour appears, change the colour system manually. (See "Colour System" on page 16.)
- When choosing an EXT terminal with no input signal, the EXT number and ID become fixed on screen.

#### Note:

The VCR RF channel is the channel that is sent as the RF signal from the VCR. To set the VCR RF channel to the PR 0 (AV) channel, refer to "Edit/Manual" on page 26. Also refer to the manual provided with the VCR.

## Operating with the Buttons on the TV

(Behind the front cover)



Turn the TV on from standby mode.





Choose a channel or an EXT terminal.





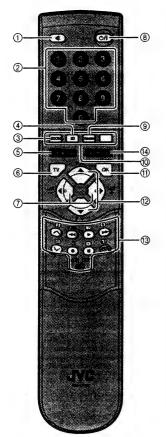
Adjust the volume.

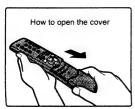
Press 🔟 .

The volume level indicator appears.

Press -/+ while the volume level indicator is displayed. Indicator is displayed.

# Remote Control Buttons and Functions





## Muting Button

You can turn the volume off instantly.

Pressing (Muting) changes the current volume to "0".



## 2 Number Buttons

You can choose a channel by entering the channel number.

- Example:
   PR 12 → press and ●.
   PR 6 → press ●.
- You can choose an EXT terminal or PR 0 (AV) channel by pressing a, button repeatedly.

## 3 ZOOM Button

You can change the screen size. (See page 9.)







The picture expands and the choosed ZOOM mode is displayed in about 5 seconds.

- Examples:
   For details, see next page.
- · You can preset a ZOOM mode for the normal picture. See "4:3 Auto Aspect" on page 17.

#### Remote Control Buttons and Functions

#### ZOOM Button (continued)

Mode	Recommended Pi	cture (Aspect)	Display	Remarks
	Any picture format except Normal Picture (4:3 Aspect Ratio)		The picture will be automatically displayed in the optimum screen size.	AUTO may not function properly with
AUTO	Normal Picture (4:3 As	pect Ratio)	Displayed in accordance with the zoom mode set on the 4:3 Auto Aspect menu. (See page 17 for further details.)	poor signal quality, In this case, choose an optimum ZOOM mode manually.
REGULAR	Normal Picture (4:3 Aspect Ratio)			Use to view a normal picture (4:3 aspect ratio) unchanged.
PANORAMIC	Normal Picture (4:3 Aspect Ratio)			This mode stretches the left and right sides of a normal picture to fill the screen, in a way that does not appear unnatural.     The top and bottom of the picture are slightly cut off.
14:9 ZOOM	Wide Picture (14:9 Aspect Ratio)			
16:9 ZOOM	Wide Picture (16:9 Aspect Ratio)	<b>.</b> O		
16:9 ZOOM SUBTITLE	Wide Picture (16:9 Aspect Ratio) with Subtitles	.O		
FULL	Normal Picture (4:3 Aspect Ratio)	<u></u>		This mode uniformly stretches the left and right sides of a normal picture (4:23 aspect ratio) to fill the wide TV screen. Use for pictures with a 16:9 aspect ratio that have been squeezed into a normal picture (4:3 aspect ratio), you can re- store their original dimensions.

This television supports WSS (wide-ecreen signals). When broadcasts with WSS are received with the ZOOM mode set at AUTO, the most suitable ZOOM mode is automatically selected in accordance with the WSS.

# ** Adjusting the visible area of the picture.

If subtitles or the top (or bottom) of the picture are cut off, adjust the visible area of the picture manually.

Press 🙉 .

The ZOOM menu appears.

Press ( to display the ZOOM mode indica-

Indicator is displayed.

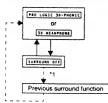
16:9 ZOOM +

visible area vertically.

- You cannot adjust the visible area in AU-TO, REGULAR and FULL mode.
- . To return to the default position, display the ZOOM menu again and press .

4 3D Button

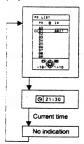
Pressing (3D) toggles the surround function as follows:



- *1: If a surround function different from the Dolby Pro Logic 3D-Phonic or the 3D Headphone is activated before you press (3D), that surround function is returned to.
- . The Dolby Pro Logic 3D-Phonic will be activated when the headphones are not connected. For details on the Dolby Pro Logic 3D-Phonic, refer to page 19.
- . The 3D Headphone will be activated when the headphones are connected. For details on the 3D Headphone, refer to
- . The 3D lamp on the TV lights when the Dolby Pro Logic 3D-Phonic or 3D Headphone function is activated.

#### 5 Information Button

Pressing (Information) changes the display as follows.



#### About the PR List:

You can choose TV channels and EXT terminals operating the PR List, For details, see "Use the PR List" on page 6.

#### About the current time display:

This TV uses teletext data to set the current time.

- . If the TV has not received a station that has teletext data since it was turned on, the time display is blank. To see the current time, choose a station that is broadcasting teletext data. As long as you do not turn off the TV, then even if you choose other stations, the time will still be displayed.
- · When watching videos, the wrong current time is sometimes displayed.

- When an EXT terminal with no input signal is chosen, the EXT number and ID become fixed on the screen.
- The (Information) button is also used for the menu

Please refer to "Menu Operation" on page 14 for more information.

#### 6 TV Button

You can return to the TV mode instantly by pressing .

■ The button is also used for the menu operation. Please refer to "Menu Operation" on page 14 for more in-

#### 7 **⊲/⊳** Buttons

You can adjust the volume

- The Headphone volume cannot adjusted with the buttons. If you want to adjust it, please refer to "Headphone" on page 19.
- The 
  | buttons are also used for the menu operation. Please refer to "Menu Operation" on page 14 for more information.

#### 8 Standby Button

- Pressing (Standby) button turns the TV on or off.
  - . When the TV is turned on, the power lamp changes from red to green.

#### 9 P.BASS (power bass) Button

You can enjoy richer and fuller bass sound.

Pressing [ (Power Bass) turns the Power Bass on or off.



## 10 Colour Buttons

The colour buttons are used for the teletext operations or the menu operations. Please refer to "Teletext Control Buttons and VCR/TEXT Switch" on page 12 or "Menu operation" on page 14 for more information.

#### 1) OK Button

The condition button is used for menu operation. Please refer to "Menu Operation" on page 14 for more infor-

#### 12 V/A Buttons

You can choose a channel by pressing the V/▲ buttons.

■ The V/A buttons are also used for the menu operation. Please refer to "Menu Operation" on page 14 for more in-

## 13 VCR Control Buttons and VCR/ **TEXT Switch**

You can control your JVC VCR using the VCR Control but-

Set the VCR/TEXT Switch to the VCR side.



Press a VCR control button to control your JVC VCR.

\$ \$ \$ \$ \$ \$ \$ \$

- For details on the VCR Control buttons, see the VCR manual.
- Depending on your VCR, the remote control may not operate perfectly, and may not even control the VCR at all.

AV-32WZ4EP AV-28WZ4EP AV-28WZ4EPS

## Remote Control Buttons and Functions

## 19 13 14 Teletext Control Buttons and VCR/TEXT Switch

#### Basic operation

You can view three types of teletext broadcasts on the TV: Fastext, TOP and WST.

Choose a channel with a teletext broadcast.

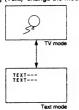
Set the VCR/TEXT switch to the TEXT side.



Display the teletext.



Pressing (Text) change the mode as follows:



Choose a teletext page.



To return to the TV mode:



- If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.
- Category names of teletext pages may appear instead of page numbers.
- . In Text mode, ZOOM mode is fixed to FULL mode.
- · None of the Menu operations are possible when viewing a teletext programme.

#### ■ Using the List Mode

You can store the numbers of your favourite teletext pages and call them up quickly using the colour buttons.

#### To store the page numbers

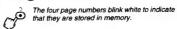
Engage the List mode.



Choose the position, then enter the page number.



Press 💩 (Store) and hold on.



#### To call up a stored page

Engage the List mode.



To cancel the List mode:



Press a colour button to which a page has been assigned.



#### **■** Hold

You can hold a teletext page on the screen for as long as you want, even while several other teletext pages are being received.





To cancel the hold:



## Remote Control Buttons and Functions

#### ■ Sub Page

Some teletext pages include sub-pages that are automatically displayed. You can hold any sub-page, or view it at any time.

Display the sub-page list.



Sub-page numbers are displayed at the left

Colour	Meaning of sub-page number
Yellow	Currently being displayed.
White	Can be displayed.
Blue or Red	Cannot be displayed and it is not sent.

## Choose a sub-page.



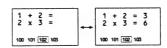
To cancel sub-page:



Some teletext pages include hidden text (such as answers to

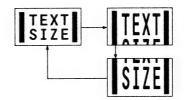


Each time you press 💍 (Reveal), text is hidden or revealed.



You can double the height of the teletext display.





You can return to the index page instantly.



#### Fastext/TOP/WST:

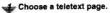
Returns to page 100 or a previously specified page.

Returns to the page number displayed in the lower left

# area of the screen.

#### Cancel

You can search for a teletext page while watching TV.



The TV searches for a teletext page.

#### Cancel teletext mode temporarily.



The TV programme appears. When the TV finds the teletext page, its page number appears in the upper left of

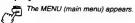
#### Return to a teletext page when the page number is on the screen.



# Menu Operation



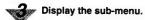
Display MENU.





Choose an item.







Choose an Sub-menu item.



5 Change the setting.

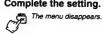


 Depending on the Sub-menu display, the following buttons can be used.







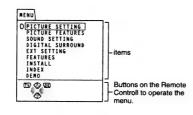


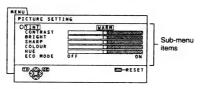
To return to the previous menu or exit the MENU.



To exit the MENU instantly.







# Picture Setting



Display MENU.



Choose PICTURE SETTING.



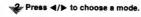
Display the Picture Setting menu.



#### Tint

You can choose one of three Tint modes to adjust the picture settings automatically.

Press ▼/▲ to choose TINT.



#### COOL

A cool white colour base with a boost in the colour and contrast levels that creates a more vivid picture.

#### WARK

A warm orange/red colour base that creates the appropriate colour and contrast levels for watching films.

#### NORMAL:

A normal white colour base with normal colour and contrast levels.

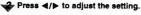


This completes the setting.

## Picture Adjustment

You can adjust the picture to your liking.





◀	Item	•
Lower	CONTRAST (picture contrast)	Higher
Darker	BRIGHT (picture brightness)	Brighter
Softer	SHARP (picture sharpness)	Sharper
Lighter	COLOUR (picture colour)	Deeper
Reddish	HUE (picture hue)	Greenish

#### Note:

 You can adjust the HUE (picture hue) only when the colour system is NTSC 3.58 or NTSC 4.43.

 To return to the default settings, press the blue button.



This completes the setting.

## **Eco Mode**

When you set the Eco Mode to ON, the screen contrast is automatically adjusted to a setting suitable for the brightness of your room.

This reduces eye strain and the power consumption of the

Press ▼/▲ to choose ECO MODE.

#### Press 4/▶ to choose ON.

To cancel the Eco Mode, choose OFF.

## Press .

This completes the setting.

If you set the Eco Mode to ON, the Eco lamp lights.

# Picture Features

MENU

BILD SPECIAL

ODIGITAL VNR AV PR
DISTRUCE
TV SYSTEM
4:3 AUTO FORMAT
PICTURE TILT

OTHER TILT

Display MENU.



Choose PICTURE FEATURES.



Display the Picture Features menu.



#### Digital VNR

When you set the Digital VNR to ON, you can reduce the noise on the screen so improving picture quality further.

Press V/▲ to choose DIGITAL VNR.

Press ◀/▶ to choose ON.

To cancel the Digital VNR, choose OFF.



This completes the setting.

## DigiPure

When the DigiPure is set to ON, optimum edge compensation applies to each portion of the same picture through digital edge compensation. Thus, Clear and natural looking images are obtained.

Press ▼/▲ to choose DigiPure.

Press **◄/▶** to choose ON.

To cancel the DigiPure, choose OFF.

Press .

This completes the setting.

#### Notes:

· Set the DigiPure to ON normally.

 The DigiPure function can also be set to QN and OFF by pressing 
 (Volume) button on the TV for 5 seconds or more.

#### Colour System

The colour system is automatically chosen, but if the picture is not clear or no colour appears, choose the colour system manually

Press ▼/▲ to choose COLOUR SYSTEM. Then Press



Press ◄/▶ to choose the appropriate colour system.

PAL: PAL system. SECAM: SECAM system. NTSC3.58:

NTSC 3.58 MHz system.

NTSC4.43: NTSC 4.43 MHz system.

AUTO:

Automatic colour system selection.

#### Notes

- The AUTO may not function properly with poor signal quality. If the picture is abnormal in AUTO mode, choose another colour system manually.
- When in the TV mode (PR 1 to PR 99), you cannot choose AUTO, NTSC 3.56 or NTSC 4.43.
- When in the TV mode (PR 0), you cannot choose NTSC 3.56 or NTSC 4.45.



This completes the setting.

#### Picture Features

#### 4:3 Auto Aspect

You can preset one of three ZOOM modes, REGULAR, PAN-ORAMIC or 14:9 ZOOM, as the ZOOM mode for the normal picture (4:3 aspect ratio).

Press ▼/≜ to choose 4:3 AUTO ASPECT. Then press .

The 4:3 AUTO ASPECT menu appears.



Press ▼/▲ to choose a ZOOM mode.



This completes the setting.

#### Picture Tilt

There are cases where the effects of the magnetic pull from the earth may make the picture tilt. If this happens, correct the picture as follows.

Press ▼/▲ to choose PICTURE TILT. Then press ...

The PICTURE TILT menu appears.



Press ▼/▲ until the picture becomes horizontal.

Press 🖃.

The correction is complete.

NGLISH

No.51551

Display MENU.



Choose EXT SETTING.



Display the EXT Setting menu.

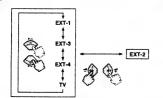


## **EXT** Setting

You can choose S-VIDEO or normal input for EXT-2, EXT-3 and EXT-4 terminals, and you can give an EXT ID to each EXT input terminal.

## ■ To choose S-VIDEO input

Press **◄/▶/▼/▲** to choose an EXT terminal.



Press the yellow button.

The S-VIDEO input indication appears.

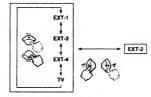
. To choose normal input, press the yellow button again.

Press .

This completes the setting.

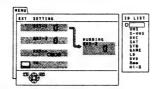
## ■ To give an EXT ID

Press **◄/▶/▼/▲** to choose an EXT terminal.



Press the blue button.

The ID LIST appears.



Press V/▲ to choose a EXT ID.

. To erase the EXT ID, choose a blank space.

Press .

The EXT ID is set to the EXT terminal.

Press (4).

This completes the setting

## Dubbing

You can choose output to a VCR or other device connected to the EXT-2 terminal. Note that you cannot output from the EXT-2 terminal when the TV is turned off.

RGB signals from TV games and Teletext screens can-not be output from EXT-2 terminal.

Press ◀/▶ to choose EXT-2.

Press V/▲ to choose the output.

If you choose TV:

The sound and picture of the currently chosen channel is output to EXT-2 and this output can be recorded on a VCR connected to the EXT-2 terminal while watching a video input from other terminals

Press .

This completes the setting.

# Features



Display MENU.



Choose FEATURES.



Display the Features menu.



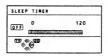
## Sleep Timer

You can set the TV to automatically turn off after a specified period of time.

. The Sleep Timer does not turn off the Main power,

Press ▼/▲ to choose SLEEP TIMER. Then press 🖼.

The Sleep Timer menu appears.



Press **◄/▶** to choose a period of time.

You can set the period of time a maximum of 120 minutes in 10 minute increments.

Press .

The Sleep Timer lamp lights if you set the Sleep Timer.

To display the remaining time:
Do step 1 to display the Sleep Timer menu, and press after checking the remaining time.

To cancel the Sleep Timer:

Do step 1 to display the Sleep Timer menu. Press ◆ choose "OFF", and then press

· The Sleep Timer lamp goes out.

 One minute before the Sleep Timer turns off the TV, "GOOD NIGHT!" appears.

## Blue Back

You can set the TV to automatically change to a blue screen and mute the sound when a week signal or no signal is received or when there is no input from an external device.

Press V/▲ to choose BLUE BACK.

Press ◀/▶ to choose ON.

. To cancel the Blue Back, choose OFF.

Press .

This completes the setting.

#### Child Lock

You can lock some channels to prevent your children from watching them.

#### ■ To set the CHILD LOCK

Press ▼/▲ to choose CHILD LOCK. Then press (number 0).

The Set ID No. menu appears.



Enter the ID number.

 Press ▼/▲ to choose a number. Press ◀/▶ to move the cursor.

2 Press .

The Child Lock menu appears.



#### Features

Press ▼/≜ to choose a channel, then press the blue button.

The (locked) mark appears, and the chosen channel is locked.

- To cancel the Child Lock, press the blue button again.
  Repeat step 4 to lock all channels which you want to
- Press .

  This completes the setting.

Notes

- You cannot choose a locked channel using the ▼/▲ buttons on the remote control nor the P \// buttons on the TV
- Even if a locked channel is displayed, the programme cannot be watched.
- To watch a locked channel

Press the number buttons to choose a locked channel.

The (locked) mark appears

0 3

Press (Information).

The ID No. input menu appears.



Press the number buttons to enter the ID number.

The locked channel can now be watched.

If you forget the ID number:

Do steps 1 of "To set the Child Lock". After confirming the ID number, press to exit the menu.

## Decoder (EXT-2)

When you connect a Decoder to a T-V LINK compatible VCR, you have to set the Decoder (EXT-2) to ON for watching scrambled channels.

Choose a scrambled channel.

The scrambled picture appears.

- If the picture is unscrambled you don't need to change the Decoder (EXT-2) setting.
- Press ▼ to display MENU. Then Press ▼/▲ to choose FEATURES.
- Press to display the Features menu.
- Press V/▲ to choose DECODER (EXT-2).
- Press **◄/▶** to choose ON.
- Press .

The T-V LINK menu appears.



Press .



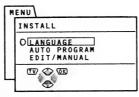
The translation of channel data from the TV to the VCR begins. The display disappears once the data transmission ends.

 Repeat steps 1 to 7 watch a different channel using the decoder.

#### Note:

 Depending on the type of VCR, the display may change once data transmission ends.
 In this case, refer to the VCR's manual.

# Install



Display MENU



Choose INSTALL.



Display the Install menu.



## Language

You can choose one of 10 languages for the on-screen display.

Press ▼/▲ to choose LANGUAGE.



Press ▼/▲ to choose a language.



This completes the setting.

# **Auto Program**

You can automatically allocate up to 99 stations to the PR channels (PR 1 to PR 99) on this TV.

Press ▼/▲ to choose AUTO PROGRAM, then press .

The Country menu appears.



Press ◀/▶/▼/▲ to choose your country.

Press the blue button.

The Auto Programming starts. The Edit menu appears after the PR channels have been set.

If the ACI menu is displayed:

If your Cable TV station supports ACI (Automatic Channel Installation), the ACI menu is displayed. Please operate it according to "ACI Operation" procedures at the bottom of page 4. The channel is set quickly to the PR channel according to the order decided for all the channels.

Notes:

- If this TV identifies a broadcast station name, that station ID is also automatically registered in a PR channel.
- To cancel the Auto programming, press
- If a station you want to view is not set to a PR channel, manually set it using the Edit menu. (See page
- To edit PR channels or set a station to PR 0 (AV) channel, refer to page 26 "Edit/Manual".

Press .

This completes the procedure and the T-V LINK menu appears.



When a T-V LINK compatible VCR is connected: You can transmit the latest PR channel data from the

You can transmit the latest PR channel data from the TV to the VCR. Carry out the procedure described in "Downloading the PR channel data to the VCR" on page 28.

When a T-V LINK compatible VCR is not connected: You cannot transmit the latest PR channel data from the TV to the VCR.

Press to exit the T-V LINK menu.

Install

Install

## Edit/Manual

You can change PR channel settings.

- · You can delete an unwanted station from a PR channel.
- · You can change the PR channel number of a station.
- You can add station IDs to PR channels.
- . You can insert a new station to a PR channel, or
- . You can manually set the desired station to a PR channel.

Press ▼/▲ to choose EDIT/MANUAL.

The Edit menu appears.



Use any of the following procedures to edit the PR channel setting.

Press (

This completes the procedure and the T-V LINK menu appears.

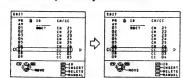


When a T-V LINK compatible VCR is connected: You can transmit the latest PR channel data from the TV to the VCR. Carry out the procedure described in "Downloading the PR channel data to the VCR" on page

When a T-V LINK compatible VCR is not connected: You cannot transmit the latest PR channel data from the TV to the VCR. Press to exit the T-V LINK menu.

#### Deleting a station

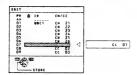
Press V/▲ to choose the station you want to delete then press the yellow button.



 If you delete a station from a PR channel, the following stations PR channel number move back

#### Changing the PR channel number

Press V/▲ to choose the station, then press



Press ▼/▲ to move the station to the desired PR channel number.



To cancel the operation, press (Information).

Press ◀.

#### ■ Adding a Station ID

Press V/▲ to choose the station, then press the red button.

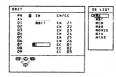


Press V/▲ to choose the first character of the desired Station ID.



## Press the blue button.

The ID List menu appears



#### Press V/▲ to choose the station ID.

. To cancel the operation, press (Information).

Press (

Adding a Station ID name of your own: Do the following procedure in place of "Adding a Station ID".

Press V/▲ to choose the station, then press the red button.

Press ▼/▲ to choose a character, then press ◄/▶ to move the cursor.

Repeat step 2 to complete the Station ID, then

#### ■ Inserting a new station

If you want to insert French stations to the PR channels: You have to set the Country setting to FRANCE before inserting French stations to the PR channels

If your Country setting is not FRANCE, change the Country setting to FRANCE. To change the Country Setting, refer to "Changing the Country Setting" on page 28.

Press ▼/▲ to choose the PR channel, then press the green button.



#### Press V/▲ to choose CC or CH

CH: to insert the terrestrial broadcast stations CC: to insert the cable TV stations

#### To set a French station: Choose CH1, CH2, CC1 or CC2.

. To cancel the operation, press (Information).

. For details on the relationship between the displayed CH/CC number and the actual channel number, see the Channel Table on page 34.

#### Press the number buttons to enter the channel number.

The channel number blinks. When the channel setting is complete, the blinking goes off.

· To enter a one-digit channel number, enter the number and press .

#### Note:

. When you insert a station, the station preset to PR99 is deleted.

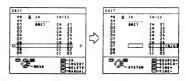
## Setting a station to a PR channel manually

If you want to set French stations to the PR channels: You have to set the Country setting to FRANCE before setting French stations to the PR channels.

If your Country setting is not FRANCE, change the Country setting to FRANCE. To change the Country Setting, refer to "Changing the Country Setting" on page 28.

Press V/▲ to choose a PR channel number, then press the blue button.

. PR channel number "AV" appears on the screen as PR 0 channel. We recommend setting this PR channel to the VCR RF channel from a VCR connected to the aerial socket.



#### Press the green or red button to search for a station.

Scanning stops when the TV finds a station. To continue searching, press the red or green button again and repeat until the station you want appears.

CH: The terrestrial broadcast stations CC: The cable TV stations

If reception is poor:

Press the blue or yellow button to fine-tune the station.

#### If reception is not correct:

Press > to choose the correct broadcast system.

· For details on the relationship between the displayed CH/CC number and the actual channel number, see the Channel Table on page 34.



#### Install

### Downloading the PR channel data to the VCR.

You can transmit the latest PR channel data from the TV to the VCR with T-V LINK.

Make sure that the T-V LINK menu is displayed.



#### Notes

- You cannot display the T-V LINK menu directly by choosing it from a menu.
- You cannot transmit the PR channel data to the VCR when a T-VLINK compatible VCR is not connected. Press to exit the menu.
- . For details about T-V LINIK, refer to page 5.

## Turn the VCR on.



The data transmission begins.

The display disappears once the data transmission ends.

#### Note:

Depending on the type of VCR, the display may change once data transmission ends.
In this case, refer to the VCR's manual.

## **■** Changing the Country Setting

- Display the Install menu.
  - To return to the Install menu from the Edit menu, press mation).
- Press ▼/▲ to choose AUTO PROGRAM. Then press ☒.

The Country menu appears.

Press </b/>
/▶/▼/▲ to choose a Country. This completes the setting.

Press ( to exit the MENU.

To return to the Install menu, press (information)

# Index



Display MENU.



Choose INDEX.



Display the Index menu.



The functions in each menu are listed in the Index menu. The required function can be found in the Index menu and the operating menu for that function can be entered with one touch.



#### Press ▼/▲ to choose a function.

If the desired function is not displayed, press ▼/▲ until it appears.



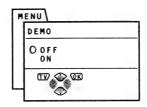
Press 🖼.

The chosen function's operating menu will be displayed.

To return to the MENU (Main Menu), press
 (Information).

ENGLIS

# Demo



Display MENU.



Choose DEMO.



Display the Demo menu.



You can see the main features of your TV by using the Demo function.

#### When the Demo is set to ON:

Each time the TV is turned on, the demonstration starts automatically. If you do not want that to happen, set the Demo setting to OFF.



#### Press V/▲ to choose ON.

. To cancel the Demo function, choose OFF.



Press .

The demonstration will start.

To stop the demonstration, press one of the buttons on the remote control.

# Additional Preparation

Use headphones with a stereo mini jack (dia. 3.5 mm).

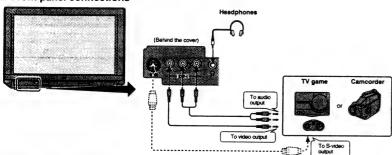
- . When using headphones, follow the procedure "Headphone" on page 19.
- . For further details, refer to manuals provided with the devices you are connecting.
- · Connecting cables are not supplied.
- This TV set has external device connectors to which you can connect external devices. However, there are some differences in functions among them. Consult the table below before making connections.

#### ■ External terminals specifications

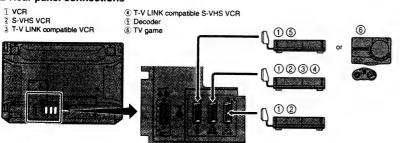
	EXT-1	EXT-2	EXT-3	EXT-4 (front)
VIDEO IN	1	å1	å1	٧٠١
VIDEO OUT	å2	√*3	-	-
S-VIDEO IN	-	√+1	å1	å1
S-VIDEO OUT	-	_	-	_
RGB IN	√	-	-	-
AUDIO-L IN	1	<b>√</b>	<b>√</b>	V
AUDIO-R IN	<b>V</b>	<b>V</b>	V	V
AUDIO-L OUT	å2	å3	-	-
AUDIO-R OUT	å2	å3	_	_
T-V LINK	-	<b>√</b>	-	-
Others	Automatic dete     Automatic dete	ection and switchin action and switchin	g of input mode. g of ZOOM mode	

- *1 Choose VIDEO or S-VIDEO mode from the EXT Setting menu. For details, see page 22 "EXT Setting".
- 2 Only the TV broadcast is output.
   3 TV broadcasts or inputs from other EXT terminals can be output. For details, see page 22 "Dubbing".

## Front panel connections



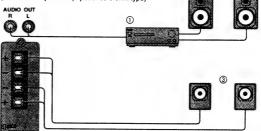
#### ■ Rear panel connections



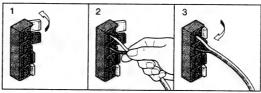
# Connecting Speakers

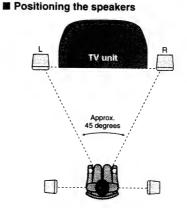
- Do the following before connecting,

  Turn the power of all the equipment off.
- Set the amplifier volume to low.
- · Read the manuals provided with the amplifiers and speakers.
- 1: Stereo amplifier
- 2: Front speakers (Magnetic-shielded Type, L, R) 3: Surround speakers (Inpedence 8 ohm type)



(Terminals on rear)





2

- Correctly connect the 
   ⊕ speak-er terminal to the 
   ⊕ TV terminal, and the ⊖ speaker terminal to the ⊖ TV terminal.
- . Though there is no L (left) and R (right) distinction for Surround Speakers, make sure that the (1) and () terminals on the speakers and the TV are correctly connected to the corresponding terminals as shown in the figure.
- Use the AUDIO OUT terminals for connecting an audio system. The volume output is controlled via the TV and The AUDIO OUT terminal output is not interrupted by headphone connection.
- When you want to use your Dolby Surround decoder, connect it to the AUDIO OUT terminals. Then set this TV's surround function to off.
- Use impedence 8 ohm type speakers for surround speakers
- · Use magnetic-shielded speakers for front speakers 2 to prevent interference by the TV.
- · For optimal effect, install the speakers 3 at least 1 metre above the heads of seated view

#### Connecting Speakers

## Connecting Surround Speakers

You can enjoy the Dolby Pro Logic surround sound with two additional surround speakers.

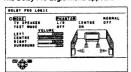
- · You can connect both your audio system and additional surround speakers. For details, refer to page 33.
- Connect the surround speakers 3 to the SUR-ROUND REAR terminal.
- Turn the TV on.
- Press 🗷. The MENU appears.
- Press ▼/▲ to choose DIGITAL SURROUND and then press .

The Digital Surround menu appears.



- If the Digital Surround does not appear in the MENU, disconnect the headphones from the TV.
- Fress V/▲ to choose DOLBY PRO LOGIC and then press .

The Dolby Pro Logic menu appears.



- Press ▼/▲ to choose MODE and ∢/▶ to choose PHANTOM.
- Press V/▲ to choose TV SPEAKER and ◀/▶ to choose L/R.
- Press V/▲ to choose TEST MODE and press √/▶ to choose ON.

Test signals are output alternately from the speakers.

Press ◀/▶ to adjust the level of each speaker so the volume levels match the listening position.

LEFT. RIGHT: Front speaker L, R SURROUND: Surround speakers

· When the Phantom mode is set, the volume of the CENTRE cannot be adjusted.

10 Press .

This completes the setting.

. The TV SPEAKER setting in the Dolby Pro Logic menu is linked to the other TV speaker setting in the Pro Logic SD-Phonic menu and Sound Setting

If you change the one of them, the others will be changed automatically.

## Connecting an Audio System

You can use your audio system as front speakers instead of the front speakers on the TV.

- . You can connect both your audio system and additional surround speakers. For details, refer to page 33.
- Connect your stereo amplifier ① to the AUDIO **OUT terminals.**
- Turn the TV on and set the volume to the lowest setting.
- Press @.
- The MENU appears.
- ♣ Press V/A to choose SOUND SETTING. Then press 🗃.

The Sound Setting menu appears.



- Note:
   When "SPEAKER" does not appear in the Sound Setting menu, press (**) to exit the menu and press (**) twice to display "SURROUND OFF". Then, repeat this procedure from step 3.
- Fress V/▲ to choose SPEAKER and press

To output sound from the TV speakers: Set SPEAKER to ON

## Connecting Speakers

● Press 🐨. This completes the settings.

Turn the stereo amplifier on and re-adjust the volume setting, then press **◄/>** to adjust the volume.

#### Notes:

- . Setting the volume of the stereo amplifier too high may damage the speakers.
- The SPEAKER setting in the Sound Setting menu is linked to the other TV Speaker setting in the Pro Logic 3D-Phonic menu and the Dotby Pro Logic
- If you change the one of them, the others will be changed automatically.
- You can use the TV speakers as the centre speakers when you enjoy the Dolby Pro Logic 3D-Phonic surround sound. This method enhances spoken dialogue. For details, refer to page 20.

## Connecting both Your Audio System and Surround Speakers

When you connect both your audio system and the additional surround speakers, you can enjoy the Dolby Pro Logic Surround sound with four external speakers and also you can use the TV speakers as the centre speakers.

When you do not use the Dolby Pro Logic or Dolby Pro Logic 3D-Phonic function, you can use your audio system as front speakers instead of the front speakers on the TV.

- Connect your stereo amplifier ① to the AUDIO OUT terminals and connect surround speakers 3 to the SURROUND REAR terminal.
- Turn the TV on and set the volume to the normal setting.
- 2 Press . The MENU appears.
- Press ▼/▲ to choose DIGITAL SURROUND and then press (m).

The Digital Surround menu appears.



- . If Digital Surround does not appear in the MENU, disconnect the headphones from the TV.
- Fress ▼/▲ to choose DOLBY PRO LOGIC and then press ▶.

The DOLBY PRO LOGIC menu appears.



Press V/▲ to choose an item and ◄/▶ to change the following settings.

Set MODE to NORMAL. Set TV SPEAKER to CENTRE.

If you do not want to use the TV speakers as the centre speakers:

Set MODE to PHANTOM and TV SPEAKER to OFF. PHANTOM mode omits the centre speaker.

Turn the stereo amplifier on and re-adjust the volume setting.

- Setting the volume of the stereo amplifier too high may damage the speakers.
- Press ▼/▲ to choose TEST MODE and ◀/▶ to choose ON.

Test signals are output alternately from the speakers.

- · If the test signal is too faint, adjust the volume of the sterso amplifier. However, setting the volume too high may damage the speakers.
- Press ◀/▶ to adjust the level of each speaker so the volume levels match the listening position (the location of the viewer as described by the diagram on page 31).

LEFT, RIGHT: Front Speaker L, R CENTRE: Centre Speaker

SURROUND: Surround Speakers

#### Motes:

- . When the Phantom mode is set, the volume of the Centre speaker cannot be adjusted.
- . If the volume of the speakers does not match after adjusting the volume levels, adjust the volume of the stereo amplifier.

10 Press .

This completes the settings.

 The TV SPEAKER setting in the Dolby Pro Logic menu is linked to the other TV Speaker setting in the Pro Logic SD-Phonic menu and the Sound Set-

If you change the one of them, the others will be changed automatically.

# Channel Table

- The following table shows the relationship between the displayed CH/CC channel number and the actual channel number.
  The actual channel numbers for the "CC" channel numbers from CC110 to CC161 differ depending on the cable TV station. Check which actual channel numbers correspond to which "CC" channels while referring to the broadcast frequencies which are indicated in the channel tables of each cable TV station. If you can not find the broadcast frequency for a channel, contact

CH	Channel	CH	Channel	cc	Channel
CH 02 / CH 202	E2	CH 40 / CH 240	E40	CC 01 / CC 201	S1
CH 03 / CH 203	E3, ITALY A	CH 41 / CH 241	E41	CC 02 / CC 202	S2
CH 04 / CH 204	E4, ITALY B	CH 42 / CH 242	E42	CC 03 / CC 203	S3
CH 05 / CH 205	E5. ITALY D	CH 43 / CH 243	E43	CC 04 / CC 204	S4
CH 06 / CH 206	E6, ITALY E	CH 44 / CH 244	E44	CC 05 / CC 205	S5
CH 07 / CH 207	E7, ITALY F	CH 45 / CH 245	E45	CC 06 / CC 206	S6
CH 08 / CH 208	E8	CH 46 / CH 246	E46	CC 07 / CC 207	S7
CH 09 / CH 209	E9, ITALY G	CH 47 / CH 247	E47	CC 08 / CC 208	S8
CH 10 / CH 210	E10, ITALY H	CH 48 / CH 248	E48	CC 09 / CC 209	S9
CH 11 / CH 211	E11, ITALY H+1	CH 49 / CH 249	E49	CC 10 / CC 210	S10
CH 12 / CH 212	E12, ITALY H+2	CH 50 / CH 250	E50	CC 11 / CC 211	S11
CH 21 / CH 221	E21	CH 51 / CH 251	E51	CC 12 / CC 212	S12
CH 22 / CH 222	E22	CH 52 / CH 252	E52	CC 13 / CC 213	S13
CH 23 / CH 223	E23	CH 53 / CH 253	E53	CC 14 / CC 214	S14
CH 24 / CH 224	E24	CH 54 / CH 254	E54	CC 15 / CC 215	S15
CH 25 / CH 225	E25	CH 55 / CH 255	E55	CC 16 / CC 216	S16
CH 26 / CH 226	E26	CH 56 / CH 256	E56	CC 17 / CC 217	S17
CH 27 / CH 227	E27	CH 57 / CH 257	E57	CC 18 / CC 218	S18
CH 28 / CH 228	E28	CH 58 / CH 258	E58	CC 19 / CC 219	S19
CH 29 / CH 229	E29	CH 59 / CH 259	E59	CC 20 / CC 220	S20
CH 30 / CH 230	E30	CH 60 / CH 260	E60	CC 21 / CC 221	S21
CH 31 / CH 231	E31	CH 61 / CH 261	E61	CC 22 / CC 222	S22
CH 32 / CH 232	E32	CH 62 / CH 262 -	E62	CC 23 / CC 223	S23
CH 33 / CH 233	E33	CH 63 / CH 263	E63	CC 24 / CC 224	S24
CH 34 / CH 234	E34	CH 64 / CH 264	E64	CC 25 / CC 225	S25
CH 35 / CH 235	E35	CH 65 / CH 265	E65	CC 26 / CC 226	S26
CH 36 / CH 236	E36	CH 66 / CH 266	E66	CC 27 / CC 227	S27
CH 37 / CH 237	E37	CH 67 / CH 267	E67	CC 28 / CC 228	S28
CH 38 / CH 238	E38	CH 68 / CH 268	E68	CC 29 / CC 229	529
CH 39 / CH 239	E39	CH 69 / CH 269	E69	CC 30 / CC 230	S30

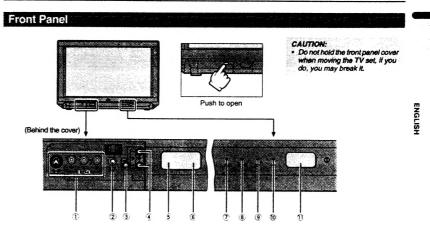
CC	Channel
CC 31 / CC 231	S31
CC 32 / CC 232	S32
CC 33 / CC 233	533
CC 34 / CC 234	S34
CC 35 / CC 235	S35
CC 36 / CC 236	S36
CC 37 / CC 237	S37
CC 38 / CC 238	S38
CC 39 / CC 239	S39
CC 40 / CC 240	S40
CC 41 / CC 241	S41
CC 75 / CC 275	x
CC 76 / CC 276	Y
CC 77 / CC 277	Z, ITALY C
CC 78 / CC 278	Z+1
CC 79 / CC 279	Z+2

СН	Channel	CH	Channel	cc	(MHz)
CH 102	F2	CH 141	F41	CC 110	116 - 124
CH 103	F3	CH 142	F42	CC 111	124 - 132
CH 104	F4	CH 143	F43	CC 112	132 - 140
CH 105	F5	CH 144	F44	CC 113	140 - 148
CH 106	F6	CH 145	F45	CC 114	148 - 156
CH 107	F7	CH 146	F46	CC 115	156 - 164
CH 108	F8	CH 147	F47	CC 116	164 - 172
CH 109	F9	CH 148	F48	CC 123	220 - 228
CH 110	F10	CH 149	F49	CC 124	228 - 236
CH 121	F21	CH 150	F50	CC 125	236 - 244
CH 122	F22	CH 151	F51	CC 126	244 - 252
CH 123	F23	CH 152	F52	CC 127	252 - 260
CH 124	F24	CH 153	F53	CC 128	260 - 268
CH 125	F25	CH 154	F54	CC 129	268 - 276
CH 126	F26	CH 155	F55	CC 130	276 - 284
CH 127	F27	CH 156	F56	CC 131	284 - 292
CH 128	F28	CH 157	F57	CC 132	292 - 300
CH 129	F29	CH 158	F58	CC 133	300 - 306
CH 130	F30	CH 159	F59	CC 141	306 - 311
CH 131	F31	CH 160	F60	CC 142	311 - 319
CH 132	F32	CH 161	F61	CC 143	319 - 327
CH 133	F33	CH 162	F62	CC 144	327 - 335
CH 134	F34	CH 163	F63	CC 145	335 - 343
CH 135	F35	CH 164	F64	CC 146	343 - 351
CH 136	F36	CH 165	F65	CC 147	351 - 359
CH 137	F37	CH 166	F66	CC 148	359 - 367
CH 138	F38	CH 167	F67	CC 149	367 - 375
CH 139	F39	CH 168	F68	CC 150	375 - 383
CH 140	F40	CH 169	F69		

сс	Frequency (MHz)
CC 151	383 - 391
CC 152	391 - 399
CC 153	399 - 407
CC 154	407 - 415
CC 155	415 - 423
CC 156	423 - 431
CC 157	431 - 439
CC 158	439 - 447
CC 159	447 - 455
CC 160	455 - 463
CC 161	463 - 469

Frequency

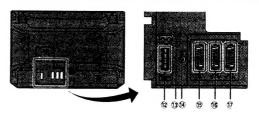
# TV Buttons and Parts



① EXT-4 terminals	pages 22, 30
2 Headphone jack (mini jack)	pages 19, 21, 30
3 🗠 (Volume) button	page 7
P V/∧ buttons / ∠ -/+ buttons	page 7
3 Remote control sensor	
ECO sensor	

pages 10, 19, 21
page 15
page 23
pages 3, 6
pages 3, 6

# Rear Panel



© SURROUND REAR terminal	page 31
3 AUDIO OUT terminal	page 31
4 Aerial socket	page 2

© EXT-1 terminal	pages 2, 22, 30
6 EXT-2 terminal	pages 2, 5, 22, 30
7 EXT-3 terminal	pages 22, 30

# Troubleshooting

If the plug is disconnected from the AC socket, or the TV aerial has problems, you may think there is a problem with the TV itself. Be sure to check the following before calling for service.

#### IMPORTANT

· Review all instructions in this manual

	Problem	Action
■ GENERAL	The TV cannot be turned on.	Insert the plug in an AC socket.     Turn the main power on. (See page 6.)
	No picture or sound.	<ul> <li>Check aerial connections. (See page 2.)</li> <li>Choose the correct input mode. (See page 7.)</li> <li>Choose the correct colour system manually. (See page 16.)</li> </ul>
	The TV shuts off automatically.	Did you set the Sleep Timer? (See page 23.)
	Inoperable remote control.	Replace the batteries. (See page 2.) Insert the batteries correctly. (See page 2.) Use the remote control within about 7 metres of the TV.
	MENU can not be displayed.	<ul> <li>Are you watching the Teletext screen? None of the Menu operations are pos sible when viewing a teletext programme. Perform the Menu operation in the TV mode.</li> </ul>
■ PICTURE	Poor colour.	Adjust COLOUR and BRIGHT. (See page 15.)     Choose the correct colour system manually. (See page 16.)
	The ZOOM mode suddenly changes.	The AUTO mode is working. (See page 9.)
	The picture is tilted .	Correct the tilted picture. (See page 17.)
	Lines or streaks in picture (interference).	Move the components apart until the interference is eliminated.     Reposition the aerial.
	Spots (crosstalk).	Reposition the aerial.     Replace with an aerial with better directionality.
	Double pictures (ghosts).	Reposition the aerial. Replace with an aerial with better directionality.
	Snowy pictures (noise).	Check aerial connections.     Redirect the aerial.     Replace or repair the aerial.

## Troubleshooting

	Problem	Action
■ SOUND	The screen turns blue.	Is the Blue Back function set to ON? (See page 23.)
	No sound from the TV's speakers.	Disconnect the headphones. If you want to have sound come from both the TV's speaker and headphones. See page 19. Set SPEAKER to ON. (See page 18.)
	The headphone volume level cannot be adjusted.	<ul> <li>It cannot be adjusted with the ◀/▶ buttons or ∠ (volume) ¬/+ buttons.</li> <li>Adjust it with the VOLUME function in the HEADPHONE menu. (See page 19.)</li> </ul>
	The sound from the TV does not stop even if the head-phones are connected.	<ul> <li>TV SPEAKER in the HEADPHONE menu is set to ON. Change the setting to OFF. (See page 19.)</li> </ul>
	No stereo sound.	Change STEREO/I+II to OO mode. (See page 18.)     Is TV SPEAKER on the Pro Logic 3D-Phonic menu or Dolby Pro Logic menu set to CENTRE? Change the TV SPEAKER setting to L/R. (See pages 20 and 32.)
	No "SUB-I" or "SUB-II" sound in a multi-sound broadcast.	Change STEREO/I+II to the correct mode. (See page 18.)
	Surround function does not function properly.	Dolby Pro Logic Surround and Pro Logic 3D-Phonic work properly only with Dolby Surround encoded programmes.     Functions other than Hyper Sound and the Headphone surround functions work properly only with stereo programmes.     Hyper Sound works properly only with mono programmes.
■ TELETEXT	No teletext reception.	Tune to a channel that has teletext. (See page 12.) Uideotaping teletext is not recommended as it may not record correctly.
	The current time is not dis- played.	Tune to a channel that has teletext. (See page 12.)

- The following are normal and are NOT malfunctions:

  When touching the picture tube surface, you might feel a slight charge of static electricity. This is because the picture tube contains static electricity; if does not affect the human body.

  The TV may emit a crackling sound due to a sudden change in temperature. There is no problem unless the picture or sound

- is abnormal.

  When a still, bright image (of a white dress, for example) appears on the screen, the image may be coloured. This problem occurs in all picture tubes, and as the bright image disappears, the colour also disappears.

  This TV is equipped with a microcomputer that may operate abnormally due to interference from external components. If this happens, turn off the main power and disconnect the power cord from the AC socket. Then reconnect the power cord to AC socket and turn on the main power again.

# **Specifications**

Model	AV-32WZ4EP		AV-28WZ4EP / AV-28WZ4EPS
TV RF systems	CCIR B/G, I, L		
Colour systems	PAL, SECAM (NTSC 3.58 / 4.43 MHz only in EXT modes)		
Channels and frequen- cies	E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2, A-H, H+1, H+2, F2 - F10, F21 - F69 • French cable TV channel of broadcast frequencies 116 - 172 MHz and 220 - 469 MHz		
Sound-multiplex systems	A2 (B/G)/NICAM (B/G, L) system		
Teletext systems	Fastext (United Kingdom system) / TOP (German system) / WST (standard system)		
Power requirements	AC 220 – 240 V, 50 Hz		
Power consumption	Maximum 249 W, Average 145 W, Standby 1.2 W		Maximum 242 W, Average 138 W, Standby 1.2 W
Picture tube size	Visible area 76 cm (measured diagonally)		Visible area 66 cm (measured diagonally)
Audio output	Rated Power output: 20 W + 20 W		
Speakers	10 cm round × 2, 3.5 cm round × 2		
External input / output	EXT-1, EXT-2, EXT-3	3 21-pin Euroconnector (SCART)	
	EXT-4	VIDEO IN (RCA) AUDIO L / R IN (I S-VIDEO IN (Min	RCA) i Din 4-pin)
	AUDIO OUT	(Variable out (0-1 FRONT L/R outp	Vrms), low impedance) ut (RCA)
	SURROUND REAR	EAR Speaker terminals for external surround speakers (Imped- ance 8 ohm) only. Rated power output: 7.5 W + 7.5W	
	Headphone jack (stereo mini jack, dia. 3.5 mm)		
Dimensions ( $W \times H \times D$ )	805 mm × 550 mm × 550 mm		716 mm × 489 mm × 496 mm
Weight	49.8 kg		36.3 kg
Accessories	Remote control unit RM-C793 × 1 AAA (R03) dry cell battery × 2	1	

# Design and specifications subject to change without notice.

Pictures displayed on the screen using this TV's image-processing functions should not be shown for any commercial or demonstration purpose in public places (tearooms and halls in hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this constitutes an infringement of copyright.

